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# CAT 2018

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### Section : VARC

## Comprehension:

NOT everything looks lovelier the longer and closer its inspection. But Saturn does. It is gorgeous through Earthly telescopes. However, the 13 years of close observation provided by Cassini, an American spacecraft, showed the planet, its moons and its remarkable rings off better and better, revealing finer structures, striking novelties and greater drama.

By and large the big things in the solar system-planets and moons-are thought of as having been around since the beginning. The suggestion that rings and moons are new is, though, made even more interesting by the fact that one of those moons, Enceladus, is widely considered the most promising site in the solar system on which to look for alien life. If Enceladus is both young and bears life, that life must have come into being quickly. This is also believed to have been the case on Earth. Were it true on Enceladus, that would encourage the idea that life evolves easily when conditions are right.

One reason for thinking Saturn's rings are young is that they are bright. The solar system is suffused with comet dust, and comet dust is dark. Leaving Saturn's ring system (which Cassini has shown to be more than 90% water ice) out in such a mist is like leaving laundry hanging on a line downwind from a smokestack: it will get dirty. The lighter the rings are, the faster this will happen, for the less mass they contain, the less celestial pollution they can absorb before they start to discolour. . . . Jeff Cuzzi, a scientist at America's space agency, NASA, who helped run Cassini, told the Lunar and Planetary Science Conference in Houston that combining the mass estimates with Cassini's measurements of the density of cometdust near Saturn suggests the rings are no older than the first dinosaurs, nor younger than the last of them-that is, they are somewhere between 200m and 70m years old.

That timing fits well with a theory put forward in 2016, by Matija Cuk of the SETI Institute, in California and his colleagues. They suggest that at around the same time as the rings came into being an old set of moons orbiting Saturn destroyed themselves, and from their remains emerged not only the rings but also the planet's current suite of inner moons-Rhea, Dione, Tethys, Enceladus and Mimas....

Dr Cuk and his colleagues used computer simulations of Saturn's moons' orbits as a sort of time machine. Looking at the rate at which tidal friction is causing these orbits to lengthen they extrapolated backwards to find out what those orbits would have looked like in the past. They discovered that about 100m years ago the orbits of two of them, Tethys and Dione, would have interacted in a way that left the planes in which they orbit markedly tilted. But their orbits are untilted. The obvious, if unsettling, conclusion was that this interaction never happened-and thus that at the time when it should have happened, Dione and Tethys were simply not there. They must have come into being later. . . .

## SubQuestion No : 1

## Q.1 Data provided by Cassini challenged the assumption that:

Options 1. Saturn's ring system is composed mostly of water ice.

- 2. new celestial bodies can form from the destruction of old celestial bodies.
- 3. all big things in the solar system have been around since the beginning.
- 4. there was life on earth when Saturn's rings were being formed.

Question Type : MCQ Question ID : 4891687284 Status : Answered

## Comprehension:

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### SubQuestion No: 2

## Q.2 Based on information provided in the passage, we can infer that, in addition to water ice, Saturn's rings might also have small amounts of:

# Options 1. helium and methane.

- 2. methane and rock particles.
- 3. helium and comet dust.
- 4. rock particles and comet dust.

Question Type : MCQ Question ID : 4891687281 Status : Answered Chosen Option : 4

### Comprehension:

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### SubQuestion No: 3

Q.3 Based on information provided in the passage, we can conclude all of the following EXCEPT:

Options 1. none of Saturn's moons ever had suitable conditions for life to evolve.

- 2. Saturn's lighter rings discolour faster than rings with greater mass.
- 3. Thethys and Dione are less than 100 million years old.
- 4. Saturn's rings were created from the remains of older moons.

Question Type : MCQ Question ID : 4891687282 Status : Answered Chosen Option : 1

### Comprehension:

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## Comprehension:

... The complexity of modern problems often precludes any one person from fully understanding them. Factors contributing to rising obesity levels, for example, include transportation systems and infrastructure, media, convenience foods, changing social norms, human biology and psychological factors... The multidimensional or layered character of complex problems also undermines the principle of meritocracy: the idea that the 'best person' should be hired. There is no best person. When putting together an oncological research team, a biotech company such as Gilead or Genentech would not construct a multiple-choice test and hire the top scorers, or hire people whose resumes score highest according to some performance criteria. Instead, they would seek diversity. They would build a team of people who bring diverse knowledge bases, tools and analytic skills....

Believers in a meritocracy might grant that teams ought to be diverse but then argue that meritocratic principles should apply within each category. Thus the team should consist of the 'best' mathematicians, the 'best' oncologists, and the 'best' biostatisticians from within the pool. That position suffers from a similar flaw. Even with a knowledge domain, no test or criteria applied to individuals will produce the best team. Each of these domains possesses such depth and breadth, that no test can exist. Consider the field of neuroscience. Upwards of 50,000 papers were published last year covering various techniques, domains of enquiry and levels of analysis, ranging from molecules and synapses up through networks of neurons. Given that complexity, any attempt to rank a collection of neuroscientists from best to worst, as if they were competitors in the 50-metre butterfly, must fail. What could be true is that given a specific task and the composition of a particular team, one scientist would be will be diverse.

Evidence for this claim can be seen in the way that papers and patents that combine diverse ideas tend to rank as high-impact. It can also be found in the structure of the so-called random decision forest, a state-of-the-art machine-learning algorithm. Random forests consist of ensembles of decision trees. If classifying pictures, each tree makes a vote: is that a picture of a fox or a dog? A weighted majority rules. Random forests can serve many ends. They can identify bank fraud and diseases, recommend ceiling fans and predict online dating behaviour. When building a forest, you do not select the best trees as they tend to make similar classifications. You want diversity. Programmers achieve that diversity by training each tree on different data, a technique known as bagging. They also boost the forest 'cognitively' by training trees on the hardest cases – those that the current forest gets wrong. This ensures even more diversity and accurate forests.

Yet the fallacy of meritocracy persists. Corporations, non-profits, governments, universities and even preschools test, score and hire the 'best'. This all but guarantees not creating the best team. Ranking people by common criteria produces homogeneity. . . . That's not likely to lead to breakthroughs.

## SubQuestion No : 6

### Q.6 The author critiques meritocracy for all the following reasons EXCEPT that:

Options 1. diversity and context-specificity are important for making major advances in any field.
 2. criteria designed to assess merit are insufficient to test expertise in any field of knowledge.

3. modern problems are multifaceted and require varied skill-sets to be solved.

4. an ideal team comprises of best individuals from diverse fields of knowledge.

Question Type : MCQ Question ID : 4891687185 Status : Answered Chosen Option : 4

#### Comprehension:

... The complexity of modern problems often precludes any one person from fully understanding them. Factors contributing to rising obesity levels, for example, include transportation systems and infrastructure, media, convenience foods, changing social norms, human biology and psychological factors. ... The multidimensional or layered character of complex problems also undermines the principle of meritocracy: the idea that the 'best person' should be hired. There is no best person. When putting together an oncological research team, a biotech company such as Gilead or Genentech would not construct a multiple-choice test and hire the top scorers, or hire people whose resumes score highest according to some performance criteria. Instead, they would seek diversity. They would build a team of people who bring diverse knowledge bases, tools and analytic

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## SubQuestion No : 7

## Q.7 Which of the following conditions, if true, would invalidate the passage's main argument?

**Options** 1. If top-scorers possessed multidisciplinary knowledge that enabled them to look at a problem from several perspectives.

2. If a new machine-learning algorithm were developed that proved to be more effective than the random decision forest.

3. If it were proven that teams characterised by diversity end up being conflicted about problems and take a long time to arrive at a solution.

4. If assessment tests were made more extensive and rigorous.

Question Type : MCQ Question ID : 4891687186 Status : Answered Chosen Option : 3

#### Comprehension:

... The complexity of modern problems often precludes any one person from fully understanding them. Factors contributing to rising obesity levels, for example, include transportation systems and infrastructure, media, convenience foods, changing social norms, human biology and psychological factors. ... The multidimensional or layered character of complex problems also undermines the principle of meritocracy: the idea that the 'best person' should be hired. There is no best person. When putting together an oncological research team, a biotech company such as Gilead or Genentech would not construct a multiple-choice test and hire the top scorers, or hire people whose resumes score highest according to some performance criteria. Instead, they would seek diversity. They would build a team of people who bring diverse knowledge bases, tools and analytic skills. . . .

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## SubQuestion No: 8

## Q.8 Which of the following best describes the purpose of the example of neuroscience?

**Options** 1. In narrow fields of knowledge, a meaningful assessment of expertise has always been possible.

2. In the modern age, every field of knowledge is so vast that a meaningful assessment of merit is impossible.

3. Unlike other fields of knowledge, neuroscience is an exceptionally complex field, making a meaningful assessment of neuroscientists impossible.

4. Neuroscience is an advanced field of science because of its connections with other branches of science like oncology and biostatistics.

Question Type : MCQ Question ID : 4891687187 Status : Answered

Chosen Option : 2

### Comprehension:

... The complexity of modern problems often precludes any one person from fully understanding them. Factors contributing to rising obesity levels, for example, include transportation systems and infrastructure, media, convenience foods, changing social norms, human biology and psychological factors. . . . The multidimensional or layered character of complex problems also undermines the principle of meritocracy: the idea that the 'best person' should be hired. There is no best person. When putting together an oncological research team, a biotech company such as Gilead or Genentech would not construct a multiple-choice test and hire the top scorers, or hire people whose resumes score highest according to some performance criteria. Instead, they would seek diversity. They would build a team of people who bring diverse knowledge bases, tools and analytic skills. . . .

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### SubQuestion No: 10

# Q.10 On the basis of the passage, which of the following teams is likely to be most effective in solving the problem of rising obesity levels?

Options 1. A specialised team of nutritionists from various countries, who are also trained in the machine-learning algorithm of random decision forest.

	4. A team comprised of nutritionists, psychologists, urban pla	nners and media personnel,
	who have each scored a distinction in their respective subject	tests.
		Question Type : <b>MCQ</b> Question ID : <b>4891687184</b> Status : <b>Not Attempted and Marked For Review</b>
		Chosen Option :
	Comprehension:	
	Grove snails as a whole are distributed all over Europe, but with a distinctive white-lipped shell, is found exclusively in Irel mountains that lie on the border between France and Spain. T of 423 snail specimens from 36 sites distributed across Europ gathering large numbers of the white-lipped variety. When the mitochondrial DNA of each of these snails and used algorithm diversity between them, they found that a distinct lineage ( shells) was indeed endemic to the two very specific and distant	t a specific variety of the snail, and and in the Pyrenees The researchers sampled a total be, with an emphasis on y sequenced genes from the ns to analyze the genetic the snails with the white-lipped nt places in question.
	Explaining this is tricky. Previously, some had speculated that creatures such as the white-lipped grove snails could be expla- in which two populations evolve the same trait by coincidence similarities between the two groups rules that out. Alternately suggested that the white-lipped variety had simply spread ove been wiped out everywhere besides Ireland and the Pyrenees, sampling and subsequent DNA analysis eliminate that possib colonized Ireland, you would expect to find some of the same Europe, especially Britain. We just don't find them," Davidson, statement.	the strange distributions of ained by convergent evolution— e—but the underlying genetic , some scientists had er the whole continent, then but the researchers say their ility too. "If the snails naturally genetic type in other areas of the lead author, said in a press
	Moreover, if they'd gradually spread across the continent, ther variation within the white-lipped type, because evolution woul thousands of years it would have taken them to spread from t variation doesn't exist, at least in the genes sampled. This me organism gradually expanding its range, large populations ins mass to the other location within the space of a few dozen ge genetic variety.	e would be some genetic d introduce variety over the he Pyrenees to Ireland. That ans that rather than the tead were somehow moved en merations, ensuring a lack of
	"There is a very clear pattern, which is difficult to explain exce Davidson said. Humans, after all, colonized Ireland roughly 9,0 fossil evidence of grove snails in Ireland dates to roughly the archaeological evidence of early sea trade between the ancien- via the Atlantic and even evidence that humans routinely ate to advent of agriculture, as their burnt shells have been found in	pt by involving humans," J00 years ago, and the oldest same era. Additionally, there is nt peoples of Spain and Ireland hese types of snails before the Stone Age trash heaps.
	The simplest explanation, then? Boats. These snails may have floor of the small, coast-hugging skiffs these early humans us been intentionally carried to Ireland by the seafarers as a food past were rivers and the ocean-as the river that flanks the Py route to the Atlantic, what we're actually seeing might be the I that hitched a rideas humans travelled from the South of Fra ago," Davidson said.	e inadvertently traveled on the sed for travel, or they may have I source. "The highways of the renees was an ancient trade ong lasting legacy of snails ince to Ireland 8,000 years
	SubQuestion No : 11	
1	The passage outlines several hypotheses and evidence relations shalls to arrive at the most convincing explanation for:	ed to white-lipped grove
ons	1. why the white-lipped variety of grove snails were wiped out and the Pyrenees.	everywhere except in Ireland
	2. how the white-lipped variety of grove snails independently e Pyrenees.	evolved in Ireland and the
	3. why the white-lipped variety of grove snails are found only i	n Ireland and the Pyrenees.
	4. how the white-lipped variety of grove snails might have mig Ireland.	rated from the Pyrenees to
		Question Type : MCQ
		Question ID : 4891686714
		Status : Answered

### Comprehension:

... Grove snails as a whole are distributed all over Europe, but a specific variety of the snail, with a distinctive white-lipped shell, is found exclusively in Ireland and in the Pyrenees mountains that lie on the border between France and Spain. The researchers sampled a total of 423 snail specimens from 36 sites distributed across Europe, with an emphasis on gathering large numbers of the white-lipped variety. When they sequenced genes from the mitochondrial DNA of each of these snails and used algorithms to analyze the genetic diversity between them, they found that... a distinct lineage (the snails with the white-lipped shells) was indeed endemic to the two very specific and distant places in question.

Explaining this is tricky. Previously, some had speculated that the strange distributions of creatures such as the white-lipped grove snails could be explained by convergent evolution in which two populations evolve the same trait by coincidence—but the underlying genetic similarities between the two groups rules that out. Alternately, some scientists had suggested that the white-lipped variety had simply spread over the whole continent, then been wiped out everywhere besides Ireland and the Pyrenees, but the researchers say their sampling and subsequent DNA analysis eliminate that possibility too. "If the snails naturally colonized Ireland, you would expect to find some of the same genetic type in other areas of Europe, especially Britain. We just don't find them," Davidson, the lead author, said in a press statement.

Moreover, if they'd gradually spread across the continent, there would be some genetic variation within the white-lipped type, because evolution would introduce variety over the thousands of years it would have taken them to spread from the Pyrenees to Ireland. That variation doesn't exist, at least in the genes sampled. This means that rather than the organism gradually expanding its range, large populations instead were somehow moved en mass to the other location within the space of a few dozen generations, ensuring a lack of genetic variety.

"There is a very clear pattern, which is difficult to explain except by involving humans," Davidson said. Humans, after all, colonized Ireland roughly 9,000 years ago, and the oldest fossil evidence of grove snails in Ireland dates to roughly the same era. Additionally, there is archaeological evidence of early sea trade between the ancient peoples of Spain and Ireland via the Atlantic and even evidence that humans routinely ate these types of snails before the advent of agriculture, as their burnt shells have been found in Stone Age trash heaps.

The simplest explanation, then? Boats. These snails may have inadvertently traveled on the floor of the small, coast-hugging skiffs these early humans used for travel, or they may have been intentionally carried to Ireland by the seafarers as a food source. "The highways of the past were rivers and the ocean-as the river that flanks the Pyrenees was an ancient trade route to the Atlantic, what we're actually seeing might be the long lasting legacy of snails that hitched a ride...as humans travelled from the South of France to Ireland 8,000 years ago," Davidson said.

### SubQuestion No : 12

#### Q.12 In paragraph 4, the evidence that "humans routinely ate these types of snails before the advent of agriculture" can be used to conclude that:

**Options** 1. 9,000 years ago, during the Stone Age, humans traveled from the South of France to Ireland via the Atlantic Ocean.

2. the seafarers who traveled from the Pyrenees to Ireland might have carried white-lipped grove snails with them as edibles.

3. rivers and oceans in the Stone Age facilitated trade in white-lipped grove snails.

4. white-lipped grove snails may have inadvertently traveled from the Pyrenees to Ireland on the floor of the small, coast-hugging skiffs that early seafarers used for travel.

Question Type : MCQ	
Question ID : 4891686716	
Status : Answered	
Chosen Option : 2	

### Comprehension:

... Grove snails as a whole are distributed all over Europe, but a specific variety of the snail, with a distinctive white-lipped shell, is found exclusively in Ireland and in the Pyrenees mountains that lie on the border between France and Spain. The researchers sampled a total of 423 snail specimens from 36 sites distributed across Europe, with an emphasis on gathering large numbers of the white-lipped variety. When they sequenced genes from the mitochondrial DNA of each of these snails and used algorithms to analyze the genetic diversity between them, they found that... a distinct lineage (the snails with the white-lipped shells) was indeed endemic to the two very specific and distant places in question.

Explaining this is tricky. Previously, some had speculated that the strange distributions of creatures such as the white-lipped grove snails could be explained by convergent evolution in which two populations evolve the same trait by coincidence—but the underlying genetic similarities between the two groups rules that out. Alternately, some scientists had suggested that the white-lipped variety had simply spread over the whole continent, then been wiped out everywhere besides Ireland and the Pyrenees, but the researchers say their sampling and subsequent DNA analysis eliminate that possibility too. "If the snails naturally colonized Ireland, you would expect to find some of the same genetic type in other areas of Europe, especially Britain. We just don't find them," Davidson, the lead author, said in a press statement.

Moreover, if they'd gradually spread across the continent, there would be some genetic variation within the white-lipped type, because evolution would introduce variety over the thousands of years it would have taken them to spread from the Pyrenees to Ireland. That variation doesn't exist, at least in the genes sampled. This means that rather than the organism gradually expanding its range, large populations instead were somehow moved en mass to the other location within the space of a few dozen generations, ensuring a lack of genetic variety.

"There is a very clear pattern, which is difficult to explain except by involving humans," Davidson said. Humans, after all, colonized Ireland roughly 9,000 years ago, and the oldest fossil evidence of grove snails in Ireland dates to roughly the same era. Additionally, there is archaeological evidence of early sea trade between the ancient peoples of Spain and Ireland via the Atlantic and even evidence that humans routinely ate these types of snails before the advent of agriculture, as their burnt shells have been found in Stone Age trash heaps.

The simplest explanation, then? Boats. These snails may have inadvertently traveled on the floor of the small, coast-hugging skiffs these early humans used for travel, or they may have been intentionally carried to Ireland by the seafarers as a food source. "The highways of the past were rivers and the ocean-as the river that flanks the Pyrenees was an ancient trade route to the Atlantic, what we're actually seeing might be the long lasting legacy of snails that hitched a ride...as humans travelled from the South of France to Ireland 8,000 years ago," Davidson said.

### SubQuestion No: 13

# Q.13 Which one of the following makes the author eliminate convergent evolution as a probable explanation for why white-lipped grove snails are found in Ireland and the Pyrenees?

Options 1. The absence of genetic similarities between white-lipped grove snails of Ireland and

snails from other parts of Europe, especially Britain.

2. The absence of genetic variation between white-lipped grove snails of Ireland and the Pyrenees.

3. The coincidental evolution of similar traits (white-lipped shell) in the grove snails of Ireland and the Pyrenees.

4. The distinct lineage of white-lipped grove snails found specifically in Ireland and the Pyrenees.

Question Type : MCQ Question ID : 4891686717 Status : Answered Chosen Option : 2

#### Comprehension:

... Grove snails as a whole are distributed all over Europe, but a specific variety of the snail, with a distinctive white-lipped shell, is found exclusively in Ireland and in the Pyrenees mountains that lie on the border between France and Spain. The researchers sampled a total of 423 snail specimens from 36 sites distributed across Europe, with an emphasis on gathering large numbers of the white-lipped variety. When they sequenced genes from the mitochondrial DNA of each of these snails and used algorithms to analyze the genetic diversity between them, they found that... a distinct lineage (the snails with the white-lipped shells) was indeed endemic to the two very specific and distant places in question.

Explaining this is tricky. Previously, some had speculated that the strange distributions of creatures such as the white-lipped grove snails could be explained by convergent evolution in which two populations evolve the same trait by coincidence—but the underlying genetic similarities between the two groups rules that out. Alternately, some scientists had suggested that the white-lipped variety had simply spread over the whole continent, then been wiped out everywhere besides Ireland and the Pyrenees, but the researchers say their sampling and subsequent DNA analysis eliminate that possibility too. "If the snails naturally colonized Ireland, you would expect to find some of the same genetic type in other areas of Europe, especially Britain. We just don't find them," Davidson, the lead author, said in a press statement. Moreover, if they'd gradually spread across the continent, there would be some genetic variation within the white-lipped type, because evolution would introduce variety over the thousands of years it would have taken them to spread from the Pyrenees to Ireland. That variation doesn't exist, at least in the genes sampled. This means that rather than the organism gradually expanding its range, large populations instead were somehow moved en mass to the other location within the space of a few dozen generations, ensuring a lack of genetic variety.

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## SubQuestion No: 14

### Q.14 All of the following evidence supports the passage's explanation of sea travel/trade EXCEPT:

**Options** 1. archaeological evidence of early sea trade between the ancient peoples of Spain and Ireland via the Atlantic Ocean.

2. the coincidental existence of similar traits in the white-lipped grove snails of Ireland and the Pyrenees because of convergent evolution.

3. the oldest fossil evidence of white-lipped grove snails in Ireland dates back to roughly 9,000 years ago, the time when humans colonised Ireland.

4. absence of genetic variation within the white-lipped grove snails of Ireland and the Pyrenees, whose genes were sampled.

Question Type : MCQ Question ID : 4891686715 Status : Answered Chosen Option : 2

### Comprehension:

More and more companies, government agencies, educational institutions and philanthropic organisations are today in the grip of a new phenomenon: 'metric fixation'. The key components of metric fixation are the belief that it is possible – and desirable – to replace professional judgment (acquired through personal experience and talent) with numerical indicators of comparative performance based upon standardised data (metrics); and that the best way to motivate people within these organisations is by attaching rewards and penalties to their measured performance.

The rewards can be monetary, in the form of pay for performance, say, or reputational, in the form of college rankings, hospital ratings, surgical report cards and so on. But the most dramatic negative effect of metric fixation is its propensity to incentivise gaming: that is, encouraging professionals to maximise the metrics in ways that are at odds with the larger purpose of the organisation. If the rate of major crimes in a district becomes the metric according to which police officers are promoted, then some officers will respond by simply not recording crimes or downgrading them from major offences to misdemeanours. Or take the case of surgeons. When the metrics of success and failure are made public – affecting their reputation and income – some surgeons will improve their metric scores by refusing to operate on patients with more complex problems, whose surgical outcomes are more likely to be negative. Who suffers? The patients who don't get operated upon.

When reward is tied to measured performance, metric fixation invites just this sort of gaming. But metric fixation also leads to a variety of more subtle unintended negative consequences. These include goal displacement, which comes in many varieties: when performance is judged by a few measures, and the stakes are high (keeping one's job, getting a pay rise or raising the stock price at the time that stock options are vested), people focus on satisfying those measures – often at the expense of other, more important organisational goals that are not measured. The best-known example is 'teaching to the test', a widespread phenomenon that has distorted primary and secondary education in the United States since the adoption of the *No Child Left Behind Act* of 2001.





### Comprehension:

More and more companies, government agencies, educational institutions and philanthropic organisations are today in the grip of a new phenomenon: 'metric fixation'. The key components of metric fixation are the belief that it is possible – and desirable – to replace professional judgment (acquired through personal experience and talent) with numerical indicators of comparative performance based upon standardised data (metrics); and that the best way to motivate people within these organisations is by attaching rewards and penalties to their measured performance.

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Short-termism is another negative. Measured performance encourages what the US sociologist Robert K Merton in 1936 called 'the imperious immediacy of interests ... where the actor's paramount concern with the foreseen immediate consequences excludes consideration of further or other consequences'. In short, advancing short-term goals at the expense of long-range considerations. This problem is endemic to publicly traded corporations that sacrifice long-term research and development, and the development of their staff, to the perceived imperatives of the quarterly report.

To the debit side of the ledger must also be added the transactional costs of metrics: the expenditure of employee time by those tasked with compiling and processing the metrics in the first place – not to mention the time required to actually read them....

## SubQuestion No: 18

# Q.18 All of the following can be a possible feature of the No Child Left Behind Act of 2001, EXCEPT:

Options 1. the focus is more on test-taking skills than on higher order thinking and problem-solving.

2. school funding and sanctions are tied to yearly improvement shown on tests.

3. standardised test scores can be critical in determining a student's educational future.

4. assessment is dependent on the teacher's subjective evaluation of students' class participation.

Question Type : MCQ Question ID : 4891686842 Status : Answered Chosen Option : 4

#### Comprehension:

More and more companies, government agencies, educational institutions and philanthropic organisations are today in the grip of a new phenomenon: 'metric fixation'. The key components of metric fixation are the belief that it is possible – and desirable – to replace professional judgment (acquired through personal experience and talent) with numerical indicators of comparative performance based upon standardised data (metrics); and that the best way to motivate people within these organisations is by attaching rewards and penalties to their measured performance.

The rewards can be monetary, in the form of pay for performance, say, or reputational, in the

form of college rankings, hospital ratings, surgical report cards and so on. But the most dramatic negative effect of metric fixation is its propensity to incentivise gaming: that is, encouraging professionals to maximise the metrics in ways that are at odds with the larger purpose of the organisation. If the rate of major crimes in a district becomes the metric according to which police officers are promoted, then some officers will respond by simply not recording crimes or downgrading them from major offences to misdemeanours. Or take the case of surgeons. When the metrics of success and failure are made public – affecting their reputation and income – some surgeons will improve their metric scores by refusing to operate on patients with more complex problems, whose surgical outcomes are more likely to be negative. Who suffers? The patients who don't get operated upon.

When reward is tied to measured performance, metric fixation invites just this sort of gaming. But metric fixation also leads to a variety of more subtle unintended negative consequences. These include goal displacement, which comes in many varieties: when performance is judged by a few measures, and the stakes are high (keeping one's job, getting a pay rise or raising the stock price at the time that stock options are vested), people focus on satisfying those measures – often at the expense of other, more important organisational goals that are not measured. The best-known example is 'teaching to the test', a widespread phenomenon that has distorted primary and secondary education in the United States since the adoption of the *No Child Left Behind Act* of 2001.

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To the debit side of the ledger must also be added the transactional costs of metrics: the expenditure of employee time by those tasked with compiling and processing the metrics in the first place – not to mention the time required to actually read them....

## SubQuestion No : 19

# Q.19 Which of the following is NOT a consequence of the 'metric fixation' phenomenon mentioned in the passage?

**Options** 1. Deviating from organisationally important objectives to measurable yet less important objectives.

2. Short-term orientation induced by frequent measurement of performance.

3. Improving cooperation among employees leading to increased organisational effectiveness in the long run.

4. Finding a way to show better results without actually improving performance.

Question Type : MCQ Question ID : 4891686843 Status : Answered Chosen Option : 3

#### Comprehension:

Will a day come when India's poor can access government services as easily as drawing cash from an ATM? . . . [N]o country in the world has made accessing education or health or policing or dispute resolution as easy as an ATM, because the nature of these activities requires individuals to use their discretion in a positive way. Technology can certainly facilitate this in a variety of ways if it is seen as one part of an overall approach, but the evidence so far in education, for instance, is that just adding computers alone doesn't make education any better. . . .

The dangerous illusion of technology is that it can create stronger, top down accountability of service providers in implementation-intensive services within existing public sector organisations. One notion is that electronic management information systems (EMIS) keep better track of inputs and those aspects of personnel that are 'EMIS visible' can lead to better services. A recent study examined attempts to increase attendance of Auxiliary Nurse Midwife (ANMs) at clinics in Rajasthan, which involved high-tech time clocks to monitor attendance. The study's title says it all: Band-Aids on a Corpse . . . e-governance can be just as bad as any other governance when the real issue is people and their motivation. For services to improve, the people providing the services have to want to do a better job with the skills they have. A study of medical care in Delhi found that even though providers, in the public sector had much better skills than private sector providers their provision of care in actual practice was much worse.

In implementation-intensive services the key to success is face-to-face interactions between a teacher, a nurse, a policeman, an extension agent and a citizen. This relationship is about

power. Amartya Sen's . . . report on education in West Bengal had a supremely telling anecdote in which the villagers forced the teacher to attend school, but then, when the parents went off to work, the teacher did not teach, but forced the children to massage his feet. . . . As long as the system empowers providers over citizens, technology is irrelevant.

The answer to successfully providing basic services is to create systems that provide both autonomy and accountability. In basic education for instance, the answer to poor teaching is not controlling teachers more . . . The key . . . is to hire teachers who want to teach and let them teach, expressing their professionalism and vocation as a teacher through autonomy in the classroom. This autonomy has to be matched with accountability for results—not just narrowly measured through test scores, but broadly for the quality of the education they provide.

A recent study in Uttar Pradesh showed that if, somehow, all civil service teachers could be replaced with contract teachers, the state could save a billion dollars a year in revenue and double student learning. Just the additional autonomy and accountability of contracts through local groups—even without complementary system changes in information and empowerment—led to that much improvement. The first step to being part of the solution is to create performance information accessible to those outside of the government....

### SubQuestion No: 20

### Q.20 The main purpose of the passage is to:

**Options** 1. find a solution to the problem of poor service delivery in education by examining different strategies.

2. analyse the shortcomings of government-appointed nurses and their management through technology.

3. argue that some types of services can be improved by providing independence and requiring accountability.

4. critique the government's involvement in educational activities and other implementationintensive services.

> Question Type : MCQ Question ID : 4891687257 Status : Answered

Chosen Option : 1

### Comprehension:

Will a day come when India's poor can access government services as easily as drawing cash from an ATM? . . . [N]o country in the world has made accessing education or health or policing or dispute resolution as easy as an ATM, because the nature of these activities requires individuals to use their discretion in a positive way. Technology can certainly facilitate this in a variety of ways if it is seen as one part of an overall approach, but the evidence so far in education, for instance, is that just adding computers alone doesn't make education any better. . . .

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Q.22 According to the author, service delivery in Indian education can be improved in all of the following ways EXCEPT through:



- 2. access to information on the quality of teaching.
- 3. recruitment of motivated teachers.
- 4. use of technology.

Question Type : MCQ Question ID : 4891687259 Status : Answered Chosen Option : 4

### Comprehension:

Will a day come when India's poor can access government services as easily as drawing cash from an ATM? . . . [N]o country in the world has made accessing education or health or policing or dispute resolution as easy as an ATM, because the nature of these activities requires individuals to use their discretion in a positive way. Technology can certainly facilitate this in a variety of ways if it is seen as one part of an overall approach, but the evidence so far in education, for instance, is that just adding computers alone doesn't make education any better. . . .

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## SubQuestion No : 23

# Q.23 The author questions the use of monitoring systems in services that involve face-to-face interaction between service providers and clients because such systems:

Options 1. are not as effective in the public sector as they are in the private sector.

- 2. are ineffective because they are managed by the government.
- 3. improve the skills but do not increase the motivation of service providers.
- 4. do not improve services that need committed service providers.

Question Type : MCQ Question ID : 4891687260 Status : Answered Chosen Option : 4

Comprehension:

Will a day come when India's poor can access government services as easily as drawing cash from an ATM? . . . [N]o country in the world has made accessing education or health or policing or dispute resolution as easy as an ATM, because the nature of these activities requires individuals to use their discretion in a positive way. Technology can certainly facilitate this in a variety of ways if it is seen as one part of an overall approach, but the evidence so far in education, for instance, is that just adding computers alone doesn't make education any better. . . . The dangerous illusion of technology is that it can create stronger, top down accountability of service providers in implementation-intensive services within existing public sector organisations. One notion is that electronic management information systems (EMIS) keep better track of inputs and those aspects of personnel that are 'EMIS visible' can lead to better services. A recent study examined attempts to increase attendance of Auxiliary Nurse Midwife (ANMs) at clinics in Rajasthan, which involved high-tech time clocks to monitor attendance. The study's title says it all: Band-Aids on a Corpse . . . e-governance can be just as bad as any other governance when the real issue is people and their motivation. For services to improve, the people providing the services have to want to do a better job with the skills they have. A study of medical care in Delhi found that even though providers, in the public sector had much better skills than private sector providers their provision of care in actual practice was much worse. In implementation-intensive services the key to success is face-to-face interactions between a teacher, a nurse, a policeman, an extension agent and a citizen. This relationship is about power. Amartya Sen's . . . report on education in West Bengal had a supremely telling anecdote in which the villagers forced the teacher to attend school, but then, when the parents went off to work, the teacher did not teach, but forced the children to massage his feet. . . . As long as the system empowers providers over citizens, technology is irrelevant. The answer to successfully providing basic services is to create systems that provide both autonomy and accountability. In basic education for instance, the answer to poor teaching is not controlling teachers more  $\ldots$  The key  $\ldots$  is to hire teachers who want to teach and let them teach, expressing their professionalism and vocation as a teacher through autonomy in the classroom. This autonomy has to be matched with accountability for results-not just narrowly measured through test scores, but broadly for the quality of the education they provide. A recent study in Uttar Pradesh showed that if, somehow, all civil service teachers could be replaced with contract teachers, the state could save a billion dollars a year in revenue and double student learning. Just the additional autonomy and accountability of contracts through local groups-even without complementary system changes in information and empowerment-led to that much improvement. The first step to being part of the solution is to create performance information accessible to those outside of the government. . . . SubQuestion No: 24 Q.24 In the context of the passage, we can infer that the title "Band Aids on a Corpse" (in paragraph 2) suggests that: Options 1. the electronic monitoring system was a superficial solution to a serious problem. 2. the clinics were better funded, but performance monitoring did not result in any improvement. 3. the nurses attended the clinics, but the clinics were ill-equipped. 4. the nurses who attended the clinics were too poorly trained to provide appropriate medical care. Question Type : MCQ Question ID : 4891687258 Status : Answered Chosen Option : 1 Q.2 The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer. 1. Self-management is thus defined as the 'individual's ability to manage the symptoms, treatment, physical and psychosocial consequences and lifestyle changes inherent in living with a chronic condition'. 2. Most people with progressive diseases like dementia prefer to have control over their own lives and health-care for as long as possible. 3. Having control means, among other things, that patients themselves perform selfmanagement activities. 4. Supporting people in decisions and actions that promote self-management is called selfmanagement support requiring a cooperative relationship between the patient, the family, and the professionals.

<ul> <li>Q.2 The four sentences (labelled 1,2,3,4) given in this question, when properly 6 coherent paragraph. Each sentence is labelled with a number. Decide on t of order of the sentences and key in this sequence of four numbers as you 1. In the era of smart world, however, 'Universal Basic Income' is an ineffect cannot address the potential breakdown of the social contract when large population would effectively be unemployed.</li> <li>2. In the era of industrial revolution, the abolition of child labour, poor laws a trade unions helped families cope with the pressures of mechanised work</li> <li>3. Growing inequality could be matched by a creeping authoritarianism that technology that is increasingly able to peer into the deepest vestiges of o</li> <li>4. New institutions emerge which recognise ways in which workers could cobenefit by economic growth when, rather than if, their jobs are automated</li> </ul>	Question Type : SA Question ID : 4891686587 Status : Answered Given Answer : 4231 v sequenced, form a he proper sequence ur answer: ve instrument which swathes of the nd the growth of  is bolstered by ur lives. ntribute to and			
	Question Type : <b>SA</b> Question ID : <b>4891687266</b> Status : <b>Answered</b> Given Answer : <b>2341</b>			
<ul> <li>7 meaningful and coherent short paragraph. Identify the odd one out. Choose its number as your answer and key the number in:</li> <li>1.Our smartphones can now track our diets, our biological cycles, even our digestive systems and sleep-patterns.</li> <li>2.Researchers have even coined a new term, "orthosomnia", to describe the insomnia brought on by paying too much attention to smartphones and sleep-tracking apps.</li> <li>3.Sleep, nature's soft nurse, is a blissful, untroubled state all too easily disturbed by earthly worries or a guilty conscience.</li> <li>4. The existence of a market for such apps is unsurprising: shift work, a long-hours culture and blue light from screens have conspired to rob many of us of sufficient rest.</li> <li>5.A new threat to a good night's rest has emerged – smart-phones, with sleep-tracking apps.</li> </ul>				
	Question Type : <b>SA</b> Question ID : <b>4891687286</b> Status : <b>Answered</b> Given Answer : <b>3</b>			
<ul> <li>Q.28 The passage given below is followed by four summaries. Choose the captures the author's position.</li> <li>Should the moral obligation to rescue and aid persons in grave peril, for enforced by the criminal law? Should we follow the lead of a number of and enact bad Samaritan laws? Proponents of bad Samaritan laws muthree different sorts of obstacles. First, they must show the laws are n principle, that is, that the duty to aid others is a proper candidate for le Second, they must show that this duty to aid can be defined in a way the enforced by the courts. Third, they must show that the benefits of the problems, risks and costs.</li> <li>Options 1. A number of European countries that have successfully enacted bad serve as model statutes.</li> <li>2. Bad Samaritan laws may be desirable but they need to be tested for list. Everyone agrees that people ought to aid others, the only debate is w on it.</li> <li>4. If bad Samaritan laws are found to be legally sound and enforceable enacted.</li> </ul>	eption that best elt by a few, be f European countries st overcome at least norally legitimate in gal enforcement. hat can be fairly laws are worth their Samaritan laws may egal soundness. hether to have a law they must be			
	Question Type : MCQ Question ID : 4891686615 Status : Answered Chosen Option : 2			

Q.2 The 9 for sec 1. It w fail 2. Co em 3. Del bus 4. The cos	<ul> <li>Q.2 The four sentences (labelled 1, 2, 3, and 4) given in this question, when properly sequenced,</li> <li>form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence of four numbers as your answer.</li> <li>1. It was his taxpayers who had to shell out as much as \$1.6bn over 10 years to employees of failed companies.</li> <li>2. Companies in many countries routinely engage in such activities which means that the employees are left with unpaid entitlements</li> <li>3. Deliberate and systematic liquidation of a company to avoid liabilities and then restarting the business is called phoenixing.</li> <li>4. The Australian Minister for Revenue and Services discovered in an audit that phoenixing had cost the Australian economy between \$2.9bn and \$5.1bn last year.</li> </ul>				
	Question Type : <b>SA</b> Question ID : <b>4891686576</b> Status : <b>Answered</b> Given Answer : <b>4321</b>				
Q.3 Th O col of d 1. Th the 2. Th rulu ine 3. Lik bus cap 4. Do sad	<ul> <li>Q.3 The four sentences (labelled 1,2,3,4) given in this question, when properly sequenced, form a</li> <li>0 coherent paragraph. Each sentence is labelled with a number. Decide on the proper sequence of order of the sentences and key in this sequence of four numbers as your answer:</li> <li>1. They would rather do virtuous side projects assiduously as long as these would not compel them into doing their day jobs more honourably or reduce the profit margins.</li> <li>2. They would fund a million of the buzzwordy programs rather than fundamentally question the rules of their game or alter their own behavior to reduce the harm of the existing distorted, inefficient and unfair rules.</li> <li>3. Like the dieter who would rather do anything to lose weight than actually eat less, the business elite would save the world through social-impact-investing and philanthrocapitalism.</li> <li>4. Doing the right thing – and moving away from their win-win mentality – would involve real sacrifice; instead, it's easier to focus on their pet projects and initiatives.</li> </ul>				
		Question Type : SA Ouestion ID : 4891686823			
		Status : <b>Answered</b> Given Answer : <b>3124</b>			
Q.31	The passage given below is followed by four summaries. Choose the o captures the author's position:	ption that best			
Options	A Japanese government panel announced that it recommends regulating only genetically modified organisms that have had foreign genes permanently introduced into their genomes and not those whose endogenous genes have been edited. The only stipulation is that researchers and businesses will have to register their modifications to plants or animals with the government, with the exception of microbes cultured in contained environments. Reactions to the decision are mixed. While lauding the potential benefits of genome editing, an editorial opposes across-the-board permission. Unforeseen risks in gene editing cannot be ruled out. All genetically modified products must go through the same safety and labeling processes regardless of method. Dptions 1. A government panel in Japan says transgenic modification and genome editing are not the same.				
	2. Creating categories within genetically modified products in terms of transgenic modification and genome editing advances science but defies laws.				
	3. Excepting microbes cultured in contained environments from the regulations of genome editing is premature.				
	4. Exempting from regulations the editing of endogenous genes is not desirable as this procedure might be risk-prone.				
	Question Type : <b>MCQ</b> Question ID : <b>4891686832</b> Status : <b>Answered</b> Chosen Option : <b>4</b>				

Q.32 The passage given below is followed by four summarie captures the author's position.	es. Choose the option that best			
The early optimism about sport's deterrent effects on d researchers failed to find any consistent relationships t deviance. As the initial studies were based upon cross- captured were short-term, it was problematic to test an events suggested by the deterrence theory. The correla delinquency could not be disentangled from class and o individuals to play sports in the first place was problem the subsequent decades as researchers began to docu participation was linked to social class indicators.	lelinquency was premature as between sports participation and -sectional data and the effects nd verify the temporal sequencing of ation between sport and cultural variables known. Choosing natic, which became more acute in ment just how closely sports			
participation was linked to social class indicators. Iptions 1. Sports participation is linked to class and cultural variables such as education, income, and social capital.				
<ol><li>There is a direct relationship between sport participat more empirical evidence.</li></ol>	tion and delinquency but it needs			
<ol><li>Contradicting the previous optimism, latter researche consistent relationship between sports participation and</li></ol>	rs have proved that there is no d deviance.			
<ol> <li>Statistical and empirical weaknesses stand in the way between sports participation and deviance.</li> </ol>	y of inferring any relationship			
	Question Type : <b>MCQ</b> Question ID : <b>4891686606</b> Status : <b>Answered</b> Chosen Option : <b>4</b>			
<ul> <li>.3 Five sentences related to a topic are given below. Four of t</li> <li>meaningful and coherent short paragraph. Identify the odd</li> <li>1. Much has been recently discovered about the developmen</li> <li>2. Some species are restricted to a single song learned by all songs.</li> <li>3. The most important auditory stimuli for the birds are the side for the birds are there is a prescribed path to development.</li> </ul>	them can be put together to form a d one out. It of songs in birds. I individuals, others have a range of ounds of other birds.			
<ol> <li>3 Five sentences related to a topic are given below. Four of t meaningful and coherent short paragraph. Identify the odd Much has been recently discovered about the developmen Some species are restricted to a single song learned by all songs.</li> <li>3. The most important auditory stimuli for the birds are the set For all bird species there is a prescribed path to developmen A bird begins with the subsong, passes through plastic sor song.</li> </ol>	them can be put together to form a d one out. It of songs in birds. I individuals, others have a range of sounds of other birds. ent of the final song, ng, until it achieves the species			
<ul> <li>3.3 Five sentences related to a topic are given below. Four of t</li> <li>3 meaningful and coherent short paragraph. Identify the odd</li> <li>1. Much has been recently discovered about the developmen</li> <li>2. Some species are restricted to a single song learned by all songs.</li> <li>3. The most important auditory stimuli for the birds are the so</li> <li>4. For all bird species there is a prescribed path to developmen</li> <li>5. A bird begins with the subsong, passes through plastic sor song.</li> </ul>	them can be put together to form a d one out. it of songs in birds. I individuals, others have a range of ounds of other birds. ent of the final song, ng, until it achieves the species Question Type : SA Question ID : 4891686602 Status : Answered Given Answer : 3			
<ul> <li>2.3 Five sentences related to a topic are given below. Four of t</li> <li>3 meaningful and coherent short paragraph. Identify the odd</li> <li>1. Much has been recently discovered about the developmen</li> <li>2. Some species are restricted to a single song learned by all songs.</li> <li>3. The most important auditory stimuli for the birds are the ss</li> <li>4. For all bird species there is a prescribed path to developmen</li> <li>5. A bird begins with the subsong, passes through plastic sor song.</li> </ul>	them can be put together to form a d one out. it of songs in birds. I individuals, others have a range of counds of other birds. ent of the final song, ng, until it achieves the species Question Type : SA Question ID : 4891686602 Status : Answered Given Answer : 3 them can be put together to form a d one out. planning must factor in potential and mitigation plans even if their re than doubled since 1980. ther is changing. re's fury but rather when.			
<ul> <li>8.3 Five sentences related to a topic are given below. Four of to meaningful and coherent short paragraph. Identify the odd 1. Much has been recently discovered about the developmen 2. Some species are restricted to a single song learned by all songs.</li> <li>3. The most important auditory stimuli for the birds are the soft for all bird species there is a prescribed path to developmen 5. A bird begins with the subsong, passes through plastic sor song.</li> <li>8.3 Five sentences related to a topic are given below. Four of to 4 meaningful and coherent short paragraph. Identify the odd 1. As India looks to increase the number of cities, our urban pratural disasters and work out contingencies in advance.</li> <li>2. Authorities must revise data and upgrade infrastructure an local area hasn't been visited by a natural calamity yet.</li> <li>3. Extreme temperatures, droughts, and forest fires have mor 4. There is no denying the fact that our baseline normal weat 5. It is no longer a question of whether we will be hit by nature</li> </ul>	them can be put together to form a d one out. it of songs in birds. I individuals, others have a range of counds of other birds. ent of the final song, ng, until it achieves the species Question Type : SA Question ID : 4891686602 Status : Answered Given Answer : 3 Them can be put together to form a d one out. planning must factor in potential and mitigation plans even if their re than doubled since 1980. ther is changing. re's fury but rather when.			
<ul> <li>2.3 Five sentences related to a topic are given below. Four of to 3 meaningful and coherent short paragraph. Identify the odd 1. Much has been recently discovered about the developmen</li> <li>2. Some species are restricted to a single song learned by all songs.</li> <li>3. The most important auditory stimuli for the birds are the set 4. For all bird species there is a prescribed path to developmen</li> <li>5. A bird begins with the subsong, passes through plastic sor song.</li> </ul>	them can be put together to form a d one out. at of songs in birds. I individuals, others have a range of roounds of other birds. ent of the final song, ng, until it achieves the species Question Type : SA Question ID : 4891686602 Status : Answered Given Answer : 3 them can be put together to form a d one out. planning must factor in potential and mitigation plans even if their re than doubled since 1980. ther is changing. re's fury but rather when. Question Type : SA Question ID : 4891686594			
<ul> <li>2.3 Five sentences related to a topic are given below. Four of t</li> <li>3 meaningful and coherent short paragraph. Identify the odd</li> <li>1. Much has been recently discovered about the developmen</li> <li>2. Some species are restricted to a single song learned by all songs.</li> <li>3. The most important auditory stimuli for the birds are the set</li> <li>4. For all bird species there is a prescribed path to developme</li> <li>5. A bird begins with the subsong, passes through plastic sor song.</li> </ul> 2.3 Five sentences related to a topic are given below. Four of t 4 meaningful and coherent short paragraph. Identify the odd 1. As India looks to increase the number of cities, our urban pratural disasters and work out contingencies in advance. 2. Authorities must revise data and upgrade infrastructure an local area hasn't been visited by a natural calamity yet. 3. Extreme temperatures, droughts, and forest fires have mor 4. There is no denying the fact that our baseline normal weat 5. It is no longer a question of whether we will be hit by nature	them can be put together to form a d one out. It of songs in birds. I individuals, others have a range of oounds of other birds. ent of the final song, ng, until it achieves the species Question Type : SA Question ID : 4891686602 Status : Answered Given Answer : 3 them can be put together to form a d one out. planning must factor in potential and mitigation plans even if their re than doubled since 1980. ther is changing. re's fury but rather when. Question Type : SA Question ID : 4891686594 Status : Answered Olicient Answered O			

Section : DILR

# Comprehension:

An agency entrusted to accredit colleges looks at four parameters: faculty quality (F), reputation (R), placement quality (P), and infrastructure (I). The four parameters are used to arrive at an overall score, which the agency uses to give an accreditation to the colleges. In each parameter, there are five possible letter grades given, each carrying certain points: A



(50 points), B (40 points), C (30 points), D (20 points), and F (0 points). The overall score for a college is the weighted sum of the points scored in the four parameters. The weights of the parameters are 0.1, 0.2, 0.3 and 0.4 in some order, but the order is not disclosed. Accreditation is awarded based on the following scheme:

Range	Accreditation
Overall score ≥ 45	AAA
35 ≤ Overall score < 45	BAA
25 ≤ Overall score < 35	BBA
15 ≤ Overall score < 25	BBB
Overall score < 15	Junk

Eight colleges apply for accreditation, and receive the following grades in the four parameters (F, R, P, and I):

	F	R	Р	I
A-one	А	А	А	В
Best Ed	В	С	D	D
Cosmopolitan	В	D	D	С
Dominance	D	D	В	С
Education Aid	A	А	В	A
Fancy	A	А	В	В
Global	С	F	D	D
High Q	С	D	D	В

It is further known that in terms of overall scores:

1. High Q is better than Best Ed;

2. Best Ed is better than Cosmopolitan; and

3. Education Aid is better than A-one.

## SubQuestion No : 1

# Q.1 What is the weight of the faculty quality parameter?

**Options** 1. 0.3

- 2.0.2
- 3.0.4
- 4. 0.1

Question Type : MCQ Question ID : 4891686539 Status : Answered Chosen Option : 3

# Comprehension:

An agency entrusted to accredit colleges looks at four parameters: faculty quality (F), reputation (R), placement quality (P), and infrastructure (I). The four parameters are used to arrive at an overall score, which the agency uses to give an accreditation to the colleges. In each parameter, there are five possible letter grades given, each carrying certain points: A (50 points), B (40 points), C (30 points), D (20 points), and F (0 points). The overall score for a college is the weighted sum of the points scored in the four parameters. The weights of the parameters are 0.1, 0.2, 0.3 and 0.4 in some order, but the order is not disclosed. Accreditation is awarded based on the following scheme:

Range	Accreditation
Overall score $\ge 45$	AAA
35 ≤ Overall score < 45	BAA
25 ≤ Overall score < 35	BBA
15 ≤ Overall score < 25	BBB
Overall score < 15	Junk

Eight colleges apply for accreditation, and receive the following grades in the four parameters (F, R, P, and I):

	F	R	Р	I
A-one	А	А	А	В
Best Ed	В	С	D	D
Cosmopolitan	В	D	D	С
Dominance	D	D	В	С
Education Aid	А	А	В	А
Fancy	А	А	В	В
Global	С	F	D	D
High Q	С	D	D	В

It is further known that in terms of overall scores:

1. High Q is better than Best Ed;

Best Ed is better than Cosmopolitan; and
 Education Aid is better than A-one.

3. Education Aid is better than A-o

SubQuestion No : 2

# Q.2 How many colleges receive the accreditation of AAA?

Question Type : **SA** Question ID : **4891687417** Status : **Answered** Given Answer : **3** 

# Comprehension:

An agency entrusted to accredit colleges looks at four parameters: faculty quality (F), reputation (R), placement quality (P), and infrastructure (I). The four parameters are used to arrive at an overall score, which the agency uses to give an accreditation to the colleges. In each parameter, there are five possible letter grades given, each carrying certain points: A (50 points), B (40 points), C (30 points), D (20 points), and F (0 points). The overall score for a college is the weighted sum of the points scored in the four parameters. The weights of the parameters are 0.1, 0.2, 0.3 and 0.4 in some order, but the order is not disclosed. Accreditation is awarded based on the following scheme:

Range	Accreditation	
Overall score ≥ 45	AAA	
35 ≤ Overall score < 45	BAA	
25 ≤ Overall score < 35	BBA	
15 ≤ Overall score < 25	BBB	
Overall score < 15	Junk	

Eight colleges apply for accreditation, and receive the following grades in the four parameters (F, R, P, and I):

	F	R	Р	I
A-one	A	А	А	В
Best Ed	В	С	D	D
Cosmopolitan	В	D	D	С
Dominance	D	D	В	С
Education Aid	A	А	В	А
Fancy	A	А	В	В
Global	С	F	D	D
High Q	С	D	D	В

It is further known that in terms of overall scores:

1. High Q is better than Best Ed;





Q.4 How many colleges have overall scores between 31 and 40, both inclusive?

# Options 1.1

# 2.0

- 3.3
- 4. 2

Question Type : MCQ Question ID : 4891686543

Question ID : 4891686543 Status : Answered Chosen Option : 1

Comprehension:

	According to a coding scheme the sentence Peacock is designated as the national bird of India						
	is coded as 5688999 35 1135556678 56 458 13666689 1334 79 13366						
1.	This coding scheme has the following rules: 1. The scheme is case-insensitive (does not distinguish between upper case and lower case						
	letters).	<u>^</u>					
2. 3. 4.	<ol> <li>Each letter has a unique code which is a single digit from among 1,2,3,, 9.</li> <li>The digit 9 codes two letters, and every other digit codes three letters.</li> <li>The code for a word is constructed by arranging the digits corresponding to its letters in a non-decreasing sequence.</li> </ol>						
	Answer these questions on the basis of this information.						
	SubQuestion No : 5						
Q.5	What best can be concluded about the code for the letter L?						
Options	s 1. 6						
	2.1						
	3. 1 or 8						
	4.8						
		Question Type : MCQ					
		Question ID : 4891686563					
		Chosen Ontion :					
	Comprehension:						
	According to a coding scheme the sentence Peacock is designated as the national bird of India is coded as						
	5688999 35 1135556678 56 458 13666689 1334 79 13366						
1. 2. 3. 4.	This coding scheme has the following rules: The scheme is case-insensitive (does not distinguish between upper calletters). Each letter has a unique code which is a single digit from among 1,2,3, . The digit 9 codes two letters, and every other digit codes three letters. The code for a word is constructed by arranging the digits corresponding non-decreasing sequence.	se and lower case ., 9. g to its letters in a					
	Answer these questions on the basis of this information.						
	SubQuestion No : 6						
Q.6	What best can be concluded about the code for the letter B?						
Options	1.3						
	2. 3 or 4						
	3. 1						
	4. 1 or 3 or 4						
		Question Type : MCQ Question ID : 4891686564					
		Status : Not Answered					
		Chosen Option :					
	- · · ·						
	Comprehension:						
	Peacock is designated as the national bird of India						
	is coded as 5688999 35 1135556678 56 458 13666689 1334 79 13366						
1.	This coding scheme has the following rules: The scheme is case-insensitive (does not distinguish between upper ca	se and lower case					
2. 3.	Each letter has a unique code which is a single digit from among 1,2,3, . The digit 9 codes two letters, and every other digit codes three letters.	., 9.					

non-decreasing sequence.	
Answer these questions on the basis of this information	
SubQuestion No : 7	
Q.7 For how many digits can the complete list of letters associated identified?	I with that digit be
Options 1. 3	
2.2	
3.1	
4. 0	
	Question Type : MCQ
	Question ID : 4891686565
	Chosen Option :
Comprehension:	
According to a coding scheme the sentence	
Peacock is designated as the national bird of India is coded as	
5688999 35 1135556678 56 458 13666689 1334 79 13366	
This coding scheme has the following rules:	
1. The scheme is case-insensitive (does not distinguish between u	Ipper case and lower case
letters).	a 1 2 2 0
3. The digit 9 codes two letters, and every other digit codes three I	etters.
<ol> <li>The code for a word is constructed by arranging the digits corre non-decreasing sequence.</li> </ol>	sponding to its letters in a
Answer these questions on the basis of this information.	
SubQuestion No : 8	
Q.8 Which set of letters CANNOT be coded with the same digit?	
Options 1. S,U,V	
2. I,B,M	
3. X,Y,Z	
3. X,Y,Z 4. S,E,Z	
3. X,Y,Z 4. S,E,Z	
3. X,Y,Z 4. S,E,Z	Question Type : MCQ
3. X,Y,Z 4. S,E,Z	Question Type : MCQ Question ID : 4891686566
3. X,Y,Z 4. S,E,Z	Question Type : <b>MCQ</b> Question ID : <b>4891686566</b> Status : <b>Not Answered</b> Chosen Ontion :
3. X,Y,Z 4. S,E,Z	Question Type : <b>MCQ</b> Question ID : <b>4891686566</b> Status : <b>Not Answered</b> Chosen Option :
3. X,Y,Z 4. S,E,Z Comprehension:	Question Type : <b>MCQ</b> Question ID : <b>4891686566</b> Status : <b>Not Answered</b> Chosen Option :
3. X,Y,Z 4. S,E,Z Comprehension: Fun Sports (FS) provides training in three sports – Gilli-danda (G), K	Question Type : <b>MCQ</b> Question ID : <b>4891686566</b> Status : <b>Not Answered</b> Chosen Option :
3. X,Y,Z 4. S,E,Z Comprehension: Fun Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol	Question Type : <b>MCQ</b> Question ID : <b>4891686566</b> Status : <b>Not Answered</b> Chosen Option :
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>5. Comprehension:</li> <li>Fun Sports (FS) provides training in three sports – Gilli-danda (G), K</li> <li>Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of s</li></ul>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option :
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>Comprehension:</li> <li>Fun Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of s three sports.</li> </ul>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option :
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>5. Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of s three sports.</li> <li>2. There are a total of 17 students enrolled in G.</li> <li>3. The number of students enrolled only in C is one less than the num</li> </ul>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option :
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>5. Fun Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of st three sports.</li> <li>2. There are a total of 17 students enrolled in G.</li> <li>3. The number of students enrolled only in G is one less than the num in L.</li> </ul>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option :
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>5. Fun Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of s three sports.</li> <li>2. There are a total of 17 students enrolled in G.</li> <li>3. The number of students enrolled only in G is one less than the num in L.</li> <li>4. The number of students enrolled only in K is equal to the number of is hold K and L</li> </ul>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option : Cho-Kho (K), and Ludo (L). Iled in at least one of the students enrolled in all the ber of students enrolled only f students who are enrolled
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>5. The maximum student enrolled only in K is equal to the number of an in both K and L.</li> <li>5. The maximum student enrollment is in L.</li> <li>6. Ten students enrolled in G are also enrolled in at least one more spont</li> </ul>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option : tho-Kho (K), and Ludo (L). lled in at least one of the students enrolled in all the ber of students enrolled only f students who are enrolled ort.
<ol> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>Fun Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>The number of students enrolled only in L is double the number of s three sports.</li> <li>There are a total of 17 students enrolled in G.</li> <li>The number of students enrolled only in G is one less than the num in L.</li> <li>The number of students enrolled only in K is equal to the number of in both K and L.</li> <li>The maximum student enrollment is in L.</li> <li>Ten students enrolled in G are also enrolled in at least one more sport SubQuestion No : 9</li> </ol>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option :
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>5. Fun Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of st three sports.</li> <li>2. There are a total of 17 students enrolled in G.</li> <li>3. The number of students enrolled only in G is one less than the num in L.</li> <li>4. The number of students enrolled only in K is equal to the number of in both K and L.</li> <li>5. The maximum student enrollment is in L.</li> <li>6. Ten students enrolled in G are also enrolled in at least one more spor SubQuestion No : 9</li> <li>9.9 What is the minimum number of students enrolled</li> </ul>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option :
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>5. Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of st three sports.</li> <li>2. There are a total of 17 students enrolled in G.</li> <li>3. The number of students enrolled only in G is one less than the num in L.</li> <li>4. The number of students enrolled only in K is equal to the number of in both K and L.</li> <li>5. The maximum student enrollment is in L.</li> <li>6. Ten students enrolled in G are also enrolled in at least one more spic SubQuestion No : 9</li> <li>Q.9 What is the minimum number of students enrolled not in K?</li> </ul>	Question Type : MCQ Question ID : 4891686566 Status : Not Answered Chosen Option :
<ul> <li>3. X,Y,Z</li> <li>4. S,E,Z</li> <li>4. S,E,Z</li> <li>5. Sports (FS) provides training in three sports – Gilli-danda (G), K Currently it has an enrollment of 39 students each of whom is enrol three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of st three sports.</li> <li>2. There are a total of 17 students enrolled in G.</li> <li>3. The number of students enrolled only in G is one less than the num in L.</li> <li>4. The number of students enrolled only in K is equal to the number of in both K and L.</li> <li>5. The maximum student enrollment is in L.</li> <li>6. Ten students enrolled in G are also enrolled in at least one more spic SubQuestion No : 9</li> <li>9. What is the minimum number of students enrolled not in K?</li> </ul>	Question Type : MCQ         Question ID : 4891686566         Status : Not Answered         Chosen Option :         tho-Kho (K), and Ludo (L).         Ided in at least one of the         students enrolled in all the         ber of students enrolled only         f students who are enrolled         ort.         d in both G and L but         Question Type : SA

Question ID : 4891687413

Status : Answered

Given Answer : 4

	Comprehension:		
1 2 3 4 5 6	<ul> <li>Fun Sports (FS) provides training in three sports – Gilli-danda (G), Kho-K Currently it has an enrollment of 39 students each of whom is enrolled in three sports. The following details are known:</li> <li>1. The number of students enrolled only in L is double the number of stude the three sports.</li> <li>2. There are a total of 17 students enrolled in G.</li> <li>3. The number of students enrolled only in G is one less than the number o only in L.</li> <li>4. The number of students enrolled only in K is equal to the number of stude enrolled in both K and L.</li> <li>5. The maximum student enrollment is in L.</li> <li>6. Ten students enrolled in G are also enrolled in at least one more sport.</li> </ul>	no (K), and Ludo (L). at least one of the ints enrolled in all students enrolled ents who are	
	SubQuestion No : 10		
Q.10	If the numbers of students enrolled in K and L are in the ratio 19:22, the number of students enrolled in L2	n what is the	
Option	is 1. 22		
	2. 19		
	3. 17		
	4. 18		
		Question Type : <b>MCQ</b> Question ID : <b>4891687063</b> Status : <b>Answered</b> Chosen Option : <b>3</b>	
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FL Cl th 1. Th 2. Th 3. Th 3. Th 4. Th 5. Th 6. Te	un Sports (FS) provides training in three sports – Gilli-danda (G), Kho-Kho ( urrently it has an enrollment of 39 students each of whom is enrolled in at tree sports. The following details are known: he number of students enrolled only in L is double the number of students tree sports. here are a total of 17 students enrolled in G. he number of students enrolled only in G is one less than the number of st L. he number of students enrolled only in K is equal to the number of student both K and L. he maximum student enrollment is in L. en students enrolled in G are also enrolled in at least one more sport.	K), and Ludo (L). east one of the enrolled in all the idents enrolled only s who are enrolled	
Su	ubQuestion No : 11		
<sup>Q.1</sup> D <sup>1</sup> S  W n e S	ue to academic pressure, students who were enrolled i ports were asked to withdraw from one of the three spo rithdrawal, the number of students enrolled in G was siz umber of students enrolled in L, while the number of st nrolled in K went down by one. After the withdrawal, ho tudents were enrolled in both G and K?	n all three orts. After the cless than the udents w many	
		Question Type : <b>SA</b> Question ID : <b>4891687414</b> Status : <b>Answered</b>	
		Given Answer : 2	
	Annual maine		
	comprenension: Fun Sports (ES) provides training in three sports – Gilli-danda (G) Kho-K	no (K) and Ludo (L)	
1	Currently it has an enrollment of 39 students each of whom is enrolled in three sports. The following details are known: 1. The number of students enrolled only in L is double the number of stude the three sports.	at least one of the	

3. Tł			lents enroll	ed in G.												
or	he number of	students er	nrolled only	in G is one l	ess than the	e number of	students	s enr	rolled							
4. Th	he number of	students er	nrolled only	in K is equa	I to the num	ber of stude	ents who	are								
enrolled in both K and L.																
6. Te	en students e	nrolled in G	are also en	rolled in at l	east one mo	ore sport.										
Si	ubQuestion N	lo : 12														
Q.12 D	)ue to acad	demic pr	essure. s	students	who wer	e enrolle	d in all	thr	ree							
S	ports were	e asked t	o withdr	aw from	one of th	e three s	ports.	Aft	ter							
tł	he withdra	wal, the	number	of studer	nts enroll	ed in G v	vas six	les	SS							
tł	han the nu	Imber of	students	s enrolled	l in L, wh	ile the nu	ımber	of								
S	tudents ei	nrolled in	K went	down by	one. Afte	er the wit	hdraw	al, I	how							
m	nany stude	ents were	e enrolle	d in both	G and L?	)										
ptions 1.	. 7															
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Constraints of the second seco	even candidat interview for a mmediately up he following v ave not been for Time Person dditionally he alaram: I was the atima: I was the atima: I was the atima: Three p intered it. aneshan: I was bitra: I was the atima: I was the	tes, Akil, Bal position. Ca con arrival, t venue log sh recorded in 7:10 am Akil, ? re are some the third pe le last perso people inclu as one amor lo : 13 be said abo 101 or Roon tom 101 pom 102	aram, Chitra indidates w hey were sec iows the arr the log and 7:15 am ? e statements in so no enter n to enter th n in the room ding Akil we ng the two c aut the room m 102	a, Divya, Erir ere required ent to one of ival times fr have been r 7:25 am ? s from the c er Room 107 he room I was m I was allo ere already i candidates a h to which D	na, Fatima, a to reach th f three interv or these can marked as 'f 7:30 am Chitra andidates: 1. as allotted to tted to. n the room illotted to Re ivya was all	Ind Ganesha e venue befor view rooms: didates. Sol 7:40 am Fatima 0. that I was al born 102. otted?	an, were i pre 8 am 101, 102 me of the 7:45 ar ? lotted to	invita 2, and e nar m	en I Ques Qu Chose	tion Ty uestion Star en Opt	rpe : <b>I</b> ID : 4 Ius : 7	ИСQ 18916 Аляжи 2	5873 ered	49		

The following venue log shows the arrival times for these candidates. Some of the names have not been recorded in the log and have been marked as '?'.

Time	7:10 am	7:15 am	7:25 am	7:30 am	7:40 am	7:45 am
Person	Akil, ?	?	?	Chitra	Fatima	?

Additionally here are some statements from the candidates:

Balaram: I was the third person to enter Room 101. Chitra: I was the last person to enter the room I was allotted to.

Erina: I was the only person in the room I was allotted to.

Fatima: Three people including Akil were already in the room that I was allotted to when I entered it.

Ganeshan: I was one among the two candidates allotted to Room 102.

SubQuestion No : 14

## Q.14 Who else was in Room 102 when Ganeshan entered?

Options 1. Divya

2. No one

3. Akil

4. Chitra

Question Type : MCQ Question ID : 4891687350 Status : Answered Chosen Option : 2

## Comprehension:

Seven candidates, Akil, Balaram, Chitra, Divya, Erina, Fatima, and Ganeshan, were invited to interview for a position. Candidates were required to reach the venue before 8 am. Immediately upon arrival, they were sent to one of three interview rooms: 101, 102, and 103. The following venue log shows the arrival times for these candidates. Some of the names have not been recorded in the log and have been marked as '?'.

Time	7:10 am	7:15 am	7:25 am	7:30 am	7:40 am	7:45 am
Person	Akil, ?	?	?	Chitra	Fatima	?

Additionally here are some statements from the candidates:

Balaram: I was the third person to enter Room 101.

Chitra: I was the last person to enter the room I was allotted to.

Erina: I was the only person in the room I was allotted to.

Fatima: Three people including Akil were already in the room that I was allotted to when I entered it.

Ganeshan: I was one among the two candidates allotted to Room 102.

## SubQuestion No: 15

## Q.15 When did Erina reach the venue?

Options 1. 7:25 am

- 2. 7:45 am
- 3. 7:10 am

4. 7:15 am

Question Type : MCQ

- Question ID : 4891687351
  - Status : Answered

Chosen Option : 2

Comprehension:

	The following have not beer	ipon arrival, i venue log sl i recorded in	they were se nows the arr the log and	ent to one o ival times f have been	f three interv or these can marked as '?	view rooms: ididates. So ?'.	101, 102, a me of the n	nd 103. ames
	Time	7:10 am	7:15 am	7:25 am	7:30 am	7:40 am	7:45 am	
	Person	Akil, ?	?	?	Chitra	Fatima	?	
	Additionally h	ere are some	e statement	s from the c	andidates:			
	Balaram: I wa Chitra: I was t Erina: I was th Fatima: Three entered it. Ganeshan: I w	s the third pe he last perso ie only perso people inclu vas one amo	erson to ente on to enter to n in the roo Iding Akil wo ng the two c	er Room 10 ne room I w n I was allo ere already i candidates a	1. as allotted t tted to. in the room <sup>-</sup> allotted to Re	o. that I was a pom 102.	llotted to wh	nen l
	SubQuestion	No : 16						
6	If Ganeshan e	entered the v	enue before	e Divya, whe	en did Balara	am enter the	e venue?	
ons	1. 7:15 am							
	2. 7:10 am							
	3. 7:25 am							
	4. 7:45 am							
						ſ		Oursetting Trans ( NOO
								Question Type : MCQ Ouestion ID : 4891687352
								Status : Answered
								Chosen Option : 1
cur cur sel A c cur and buy bas exc The The The The Uni The Uni Sul	rency Y which rency at buyin ling exchange eurrencies A, B, a other. The base ving exchange rates. e following face e amount of L e amounts of I e outlet receive e outlet started ts of C. e outlet ended ts of C. bQuestion No w many units	is equivalen g exchange i rates that ar nge outlet us nd C, but doo e exchange r rates of eacl ts are knowr used by the ts are knowr used by the used by the the outlet re ad 88000 unit d the day with the day with the day with	t in value to rates that are e higher tha ess not excha ates of A, B n of A, B, an r selling exc n about the o butlet to buy outlet an anone and a did the out	I currency L and c with and C with d C with res hange rates butlet on a p C equals th y A and B a the sales o elling A durin bunt of L, 230	to buy and a base exchange rates. to buy and a cernational c respect to L are s are 10% ab particular da the amount o re in the rati of A and B a ng the day. 00 units of A	sell three int urrency ex arge rates, a sell three int urrency dire are in the rat 5% below 1 sove their cc y: f L it receive o 5:3. re in the rati A, 4800 units	change out and sell curr ectly with atio 100:120 the corresponding ed by selling o 5:9. s of B, and 4 of B, and 5	lets buy rency at D:1. The onding g base g C. 48000 1000
						ſ		Question Type : <b>SA</b> Question ID : <b>4891687405</b>

	-
of currency Y which is equivalent in value to one unit of currency X. Curr outlets buy currency at buying exchange rates that are lower than base sell currency at selling exchange rates that are higher than base exchan	rency exchange exchange rates, and ige rates.
<ul> <li>A currency exchange outlet uses the local currency L to buy and sell three currencies A, B, and C, but does not exchange one international currence another. The base exchange rates of A, B and C with respect to L are 5 corresponding base exchange rates, and their selling exchange rates are corresponding base exchange rates. The following facts are known about the outlet on a particular day:</li> <li>1. The amount of L used by the outlet to buy C equals the amount of L it refers to the outlet received from the sales of A and B are in the ratio 5:3.</li> <li>3. The amounts of L the outlet received from the sales of A and B are in the 4. The outlet started the day with some amount of L, 2500 units of A, 4800 48000 units of C.</li> <li>6. The outlet ended the day with some amount of L, 3300 units of A, 4800 51000 units of C.</li> </ul>	ee international y directly with the ratio 100:120:1. 5% below the e 10% above their ecceived by selling C. e ratio 5:9. 0 units of B, and units of B, and
SubQuestion No : 18	
Q.18 How many units of currency C did the outlet sell on that day?	
Options 1. 3000	
2. 19000	
3. 6000	
4. 22000	
	Question Type : MCQ Question ID : 4891687330 Status : Not Answered Chosen Option :
<ul> <li>currency Y which is equivalent in value to one unit of currency X. Currency e currency at buying exchange rates that are lower than base exchange rates selling exchange rates that are higher than base exchange rates.</li> <li>A currency exchange outlet uses the local currency L to buy and sell three in currencies A, B, and C, but does not exchange one international currency di another. The base exchange rates of A, B and C with respect to L are in the buying exchange rates of each of A, B, and C with respect to L are 5% below base exchange rates, and their selling exchange rates are 10% above their cexchange rates.</li> <li>The following facts are known about the outlet on a particular day:</li> <li>The amount of L used by the outlet to buy A and B are in the ratio 5:3.</li> <li>The amounts of L used by the outlet to buy A and B are in the ratio 5:3.</li> <li>The outlet received 88000 units of L by selling A during the day.</li> <li>The outlet started the day with some amount of L, 3300 units of A, 4800 unit units of C.</li> <li>SubQuestion No : 19</li> </ul>	exchange outlets buy , and sell currency at nternational rectly with ratio 100:120:1. The v the corresponding corresponding base ved by selling C. tio 5:9. its of B, and 48000 ts of B, and 51000
Q.1 What was the base exchange rate of currency B with respect to currency L	on that day?
9	
	Question Type : <b>SA</b> Question ID : <b>4891687406</b> Status : <b>Not Answered</b> Given Answer :
Comprehension:	
The base exchange rate of a currency X with respect to a currency Y is t of currency Y which is equivalent in value to one unit of currency X. Curr outlets buy currency at buying exchange rates that are lower than base sell currency at selling exchange rates that are higher than base exchan	the number of units rency exchange exchange rates, and ige rates.



- The following facts are known about the outlet on a particular day:
- 1. The amount of L used by the outlet to buy C equals the amount of L it received by selling C.
- 2. The amounts of L used by the outlet to buy A and B are in the ratio 5:3.
- 3. The amounts of L the outlet received from the sales of A and B are in the ratio 5:9.
- 4. The outlet received 88000 units of L by selling A during the day.
- 5. The outlet started the day with some amount of L, 2500 units of A, 4800 units of B, and 48000 units of C.
- 6. The outlet ended the day with some amount of L, 3300 units of A, 4800 units of B, and 51000 units of C.

## SubQuestion No: 20

Q.20 What was the buying exchange rate of currency C with respect to currency L on that day?

### Options 1. 0.95

- 2 2 2 0
- 3.1.10
- 4.1.90

Question Type : MCQ	
Question ID : 4891687332	
Status : Not Answered	
Chosen Option :	

### Comprehension:

There are only four brands of entry level smartphones called Azra, Bysi, Cxqi, and Dipq in a country.

Details about their market share, unit selling price, and profitability (defined as the profit as a percentage of the revenue) for the year 2016 are given in the table below:

Brand	Market share (%)	Unit Selling Price (Rs.)	Profitability (%)
Azra	40	15,000	10
Bysi	25	20,000	30
Cxqi	15	30,000	40
Dipq	20	25,000	30

In 2017, sales volume of entry level smartphones grew by 40% as compared to that in 2016. Cxqi offered a 40% discount on its unit selling price in 2017, which resulted in a 15% increase in its market share. Each of the other three brands lost 5% market share. However, the profitability of Cxqi came down to half of its value in 2016. The unit selling prices of the other three brands and their profitability values remained the same in 2017 as they were in 2016.

### SubOuestion No: 21

## Q.21 The brand that had the highest revenue in 2016 is:

Options 1. Bysi

- 2. Dipq
- 3. Cxqi
- 4. Azra

Question Type : MCQ

Question ID : 4891686987

Status : Not Attempted and Marked For Review

Chosen Option : --

## Comprehension:

There are only four brands of entry level smartphones called Azra, Bysi, Cxqi, and Dipq in a

country

Details about their market share, unit selling price, and profitability (defined as the profit as a

percentage of the revenue) for the year 2016 are given in the table below:

Brand	Market share (%)	Unit Selling Price (Rs.)	Profitability (%)
Azra	40	15,000	10
Bysi	25	20,000	30
Cxqi	15	30,000	40
Dipq	20	25,000	30

In 2017, sales volume of entry level smartphones grew by 40% as compared to that in 2016. Cxqi offered a 40% discount on its unit selling price in 2017, which resulted in a 15% increase in its market share. Each of the other three brands lost 5% market share. However, the profitability of Cxqi came down to half of its value in 2016. The unit selling prices of the other three brands and their profitability values remained the same in 2017 as they were in 2016.

## SubQuestion No : 22

# Q.22 The brand that had the highest profit in 2016 is:

### Options 1. Azra

- 2. Bysi
- 3. Cxqi
- 4. Dipq

Question Type : MCQ Question ID : 4891686988 Status : Not Attempted and Marked For Review Chosen Option : --

### Comprehension:

There are only four brands of entry level smartphones called Azra, Bysi, Cxqi, and Dipq in a country.

Details about their market share, unit selling price, and profitability (defined as the profit as a percentage of the revenue) for the year 2016 are given in the table below:

Brand	Market share (%)	Unit Selling Price (Rs.)	Profitability (%)
Azra	40	15,000	10
Bysi	25	20,000	30
Cxqi	15	30,000	40
Dipq	20	25,000	30

In 2017, sales volume of entry level smartphones grew by 40% as compared to that in 2016. Cxqi offered a 40% discount on its unit selling price in 2017, which resulted in a 15% increase in its market share. Each of the other three brands lost 5% market share. However, the profitability of Cxqi came down to half of its value in 2016. The unit selling prices of the other three brands and their profitability values remained the same in 2017 as they were in 2016.

# SubQuestion No : 23

# Q.23 The brand that had the highest profit in 2017 is:

Options 1. Dipq

- 2. Azra
- 3. Cxqi
- 4. Bysi

Question Type : MCQ Question ID : 4891686989 Status : Not Attempted and Marked For Review Chosen Option : --

### Comprehension:

There are only four brands of entry level smartphones called Azra, Bysi, Cxqi, and Dipq in a country.

Details about their market share, unit selling price, and profitability (defined as the profit as a percentage of the revenue) for the year 2016 are given in the table below:

Brand	Market share (%)	Unit Selling Price (Rs.)	Profitability (%)
Azra	40	15,000	10
Bysi	25	20,000	30
Cxqi	15	30,000	40
Dipq	20	25,000	30

In 2017, sales volume of entry level smartphones grew by 40% as compared to that in 2016. Cxqi offered a 40% discount on its unit selling price in 2017, which resulted in a 15% increase in its market share. Each of the other three brands lost 5% market share. However, the profitability of Cxqi came down to half of its value in 2016. The unit selling prices of the other three brands and their profitability values remained the same in 2017 as they were in 2016.

## SubQuestion No : 24

### Q.24 The complete list of brands whose profits went up in 2017 from 2016 is:

- Options 1. Cxqi, Azra, Dipq
  - 2. Azra, Bysi, Cxqi
  - 3. Azra, Bysi, Dipq
  - 4. Bysi, Cxqi, Dipq

Question Type : **MCQ** Question ID : **4891686990** Status : **Not Attempted and Marked For Review** Chosen Option : --

## Comprehension:

Each visitor to an amusement park needs to buy a ticket. Tickets can be Platinum, Gold, or Economy. Visitors are classified as Old, Middle-aged, or Young. The following facts are known about visitors and ticket sales on a particular day:

- 1. 140 tickets were sold.
- The number of Middle-aged visitors was twice the number of Old visitors, while the number of Young visitors was twice the number of Middle-aged visitors.
- 3. Young visitors bought 38 of the 55 Economy tickets that were sold, and they bought half the total number of Platinum tickets that were sold.
- 4. The number of Gold tickets bought by Old visitors was equal to the number of Economy tickets bought by Old visitors.

## SubQuestion No: 25

Q.25 If the number of Old visitors buying Platinum tickets was equal to the number of Middleaged visitors buying Platinum tickets, then which among the following could be the total number of Platinum tickets sold?

# **Options** 1. 38

- 2.32
- 3.34
- 4.36

Question Type : MCQ Question ID : 4891687421 Status : Answered Chosen Option : 2

# Comprehension:

Each visitor to an amusement park needs to buy a ticket. Tickets can be Platinum, Gold, or Economy. Visitors are classified as Old, Middle-aged, or Young. The following facts are known about visitors and ticket sales on a particular day:

- 1. 140 tickets were sold.
- 2. The number of Middle-aged visitors was twice the number of Old visitors, while the number of Young visitors was twice the number of Middle-aged visitors.

3. Young visitors bought 38 of the 55 Economy tickets that were sold, and they bought half the total number of Platinum tickets that were sold.

bought by Old	visitors.	of Economy tickets
SubOuestion	No : 26	
<ul><li>2.2 If the number</li><li>6 visitors buyin</li></ul>	of Old visitors buying Platinum tickets was equal to the nun g Economy tickets, then the number of Old visitors buying G	ber of Middle-aged old tickets was
		Question Type : SA Question ID : 4891687422 Status : Answered
		Given Answer : 14
Comprehensi	on:	
Each visitor to Economy. Vis about visitors 1. 140 tickets w 2. The number of Young visitors 3. Young visitors total number 4. The number of bought by Old	on a musement park needs to buy a ticket. Tickets can be Pl itors are classified as Old, Middle-aged, or Young. The followi and ticket sales on a particular day: ere sold. If Middle-aged visitors was twice the number of Old visitors, v is was twice the number of Middle-aged visitors. Is bought 38 of the 55 Economy tickets that were sold, and the of Platinum tickets that were sold. If Gold tickets bought by Old visitors was equal to the number visitors.	atinum, Gold, or ng facts are known /hile the number of y bought half the of Economy tickets
SubQuestion	No : 27	
Q.2 If the number 7 visitors buyin	of Old visitors buying Gold tickets was strictly greater than g Gold tickets, then the number of Middle-aged visitors buyi	he number of Young ng Gold tickets was
		Ouestion Type : SA
		Question ID : <b>4891687408</b>
		Status : Answered
		Given Answer : 2
Each visit Economy. known ab 1. 140 ticket 2. The numb of Young vis total num 4. The numb tickets bo SubQuest	or to an amusement park needs to buy a ticket. Tickets can be Visitors are classified as Old, Middle-aged, or Young. The foll out visitors and ticket sales on a particular day: s were sold. er of Middle-aged visitors was twice the number of Old visito visitors was twice the number of Middle-aged visitors. tors bought 38 of the 55 Economy tickets that were sold, and ber of Platinum tickets that were sold. er of Gold tickets bought by Old visitors was equal to the num ught by Old visitors. <b>tion No : 28</b>	e Platinum, Gold, or owing facts are rs, while the number they bought half the aber of Economy
Q.28 Which of	he following statements MUST be FALSE?	
ptions 1. The nur	nbers of Gold and Platinum tickets bought by Young visitors	vere equal
2. The nur	nbers of Old and Middle-aged visitors buying Platinum tickets	s were equal
3. The nui 4. The nui	nbers of Oid and Middle-aged visitors buying Economy tickets	were equal
		Question Type : <b>MCQ</b> Question ID : <b>4891687387</b> Status : <b>Answered</b>
		Chosen Option : 1
Comprehe Each of th following revenue fr and Mark	ension: e 23 boxes in the picture below represents a product manufa three companies: Alfa, Bravo and Charlie. The area of a box is om the corresponding product, while its centre represents the et potential scores of the product (out of 20). The shadings of	ctured by one of the proportional to the Product popularity some of the boxes



The companies classified their products into four categories based on a combination of scores (out of 20) on the two parameters – Product popularity and Market potential as given below:

	Promising	Blockbuster	Doubtful	No-hope
Product popularity score	>10	>10	≤10	≤10
Market potential score	>10	≤10	>10	≤10

The following facts are known:

- 1. Alfa and Bravo had the same number of products in the Blockbuster category.
- 2. Charlie had more products than Bravo but fewer products than Alfa in the No-hope category.
- 3. Each company had an equal number of products in the Promising category.
- 4. Charlie did not have any product in the Doubtful category, while Alfa had one product more than Bravo in this category.
- 5. Bravo had a higher revenue than Alfa from products in the Doubtful category.
- 6. Charlie had a higher revenue than Bravo from products in the Blockbuster category.
- 7. Bravo and Charlie had the same revenue from products in the No-hope category.
- 8. Alfa and Charlie had the same total revenue considering all products.

### SubQuestion No: 29

Q.29 Considering all companies' products, which product category had the highest revenue?

Options 1. Doubtful

- 2. Promising
- 3. No-hope
- 4. Blockbuster

Question Type : MCQ Question ID : 4891686981 Status : Not Answered \_\_\_\_\_

Chosen Option : --

### Comprehension:

Each of the 23 boxes in the picture below represents a product manufactured by one of the following three companies: Alfa, Bravo and Charlie. The area of a box is proportional to the revenue from the corresponding product, while its centre represents the Product popularity



and Market potential scores of the product (out of 20). The shadings of some of the boxes have got erased.



The companies classified their products into four categories based on a combination of scores (out of 20) on the two parameters – Product popularity and Market potential as given below:

	Promising	Blockbuster	Doubtful	No-hope
Product popularity score	>10	>10	≤10	≤10
Market potential score	>10	≤10	>10	≤10

The following facts are known:

1. Alfa and Bravo had the same number of products in the Blockbuster category.

- 2. Charlie had more products than Bravo but fewer products than Alfa in the No-hope category.
- 3. Each company had an equal number of products in the Promising category.
- 4. Charlie did not have any product in the Doubtful category, while Alfa had one product more than Bravo in this category.
- 5. Bravo had a higher revenue than Alfa from products in the Doubtful category.
- 6. Charlie had a higher revenue than Bravo from products in the Blockbuster category.
- 7. Bravo and Charlie had the same revenue from products in the No-hope category.
- 8. Alfa and Charlie had the same total revenue considering all products.

### SubQuestion No: 30

Q.30 Which of the following is the correct sequence of numbers of products Bravo had in Nohope, Doubtful, Promising and Blockbuster categories respectively?

- Options 1. 2,3,1,2
  - 2. 1,3,1,2
    - 3. 3,3,1,2
    - 4. 1,3,1,3

Question Type : MCQ Question ID : 4891686978

Status : Not Answered

Chosen Option : --

Comprehension:

Each of the 23 boxes in the picture below represents a product manufactured by one of the following three companies: Alfa, Bravo and Charlie. The area of a box is proportional to the revenue from the corresponding product, while its centre represents the Product popularity and Market potential scores of the product (out of 20). The shadings of some of the boxes have got erased.



The companies classified their products into four categories based on a combination of scores (out of 20) on the two parameters – Product popularity and Market potential as given below:

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The following facts are known:

- 1. Alfa and Bravo had the same number of products in the Blockbuster category.
- 2. Charlie had more products than Bravo but fewer products than Alfa in the No-hope category.
- 3. Each company had an equal number of products in the Promising category.
- 4. Charlie did not have any product in the Doubtful category, while Alfa had one product more than Bravo in this category.
- 5. Bravo had a higher revenue than Alfa from products in the Doubtful category.
- 6. Charlie had a higher revenue than Bravo from products in the Blockbuster category.
- Bravo and Charlie had the same revenue from products in the No-hope category.
- 8. Alfa and Charlie had the same total revenue considering all products.

## SubQuestion No : 31

# Q.31 Which of the following statements is NOT correct?

Options 1. The total revenue from No-hope products was less than the total revenue from Doubtful products

2. Bravo and Charlie had the same revenues from No-hope products

 $\ensuremath{\mathsf{3}}.$  Bravo's revenue from Blockbuster products was greater than Alfa's revenue from Doubtful products

4. Alfa's revenue from Blockbuster products was the same as Charlie's revenue from Promising products

> Question Type : MCQ Question ID : 4891686979 Status : Not Answered

# Comprehension:

Each of the 23 boxes in the picture below represents a product manufactured by one of the following three companies: Alfa, Bravo and Charlie. The area of a box is proportional to the revenue from the corresponding product, while its centre represents the Product popularity and Market potential scores of the product (out of 20). The shadings of some of the boxes have got erased.



The companies classified their products into four categories based on a combination of scores (out of 20) on the two parameters – Product popularity and Market potential as given below:

	Promising	Blockbuster	Doubtful	No-hope
Product popularity score	>10	>10	≤10	≤10
Market potential score	>10	≤10	>10	≤10

The following facts are known:

- 1. Alfa and Bravo had the same number of products in the Blockbuster category.
- 2. Charlie had more products than Bravo but fewer products than Alfa in the No-hope category.
- 3. Each company had an equal number of products in the Promising category.
- 4. Charlie did not have any product in the Doubtful category, while Alfa had one product more than Bravo in this category.
- 5. Bravo had a higher revenue than Alfa from products in the Doubtful category.
- 6. Charlie had a higher revenue than Bravo from products in the Blockbuster category.
- 7. Bravo and Charlie had the same revenue from products in the No-hope category.
- 8. Alfa and Charlie had the same total revenue considering all products.

### SubQuestion No : 32

Q.32 If the smallest box on the grid is equivalent to revenue of Rs.1 crore, then what approximately was the total revenue of Bravo in Rs. crore?

# **Options** 1. 40

- 2.34
- 3.24
- 4.30

Question Type : MCQ

Question ID : 4891686982

Status : Not Answered Chosen Option : --

Section : QA A triangle ABC has area 32 sq units and its side BC, of length 8 units, lies on the line x = 4. Q.1 Then the shortest possible distance between A and the point (0,0) is Options 1. 8 units 2. 4√2 units 3.4 units 4. 2√2 units Question Type : MCQ Question ID : 4891686711 Status : Not Attempted and Marked For Review Chosen Option : --Q.2 If A =  $\{6^{2n} - 35n - 1: n = 1, 2, 3, ...\}$  and B =  $\{35(n-1): n = 1, 2, 3, ...\}$  then which of the following is true? Options 1. Every member of B is in A. 2. Every member of A is in B and at least one member of B is not in A 3. Neither every member of A is in B nor every member of B is in A 4. At least one member of A is not in B Question Type : MCQ Question ID : 4891686683 Status : Not Attempted and Marked For Review Chosen Option : --Q.3 A chord of length 5 cm subtends an angle of 60° at the centre of a circle. The length, in cm, of a chord that subtends an angle of 120° at the centre of the same circle is Options 1.8 2. 2π 3.6√2 4. 5√3 Question Type : MCQ Question ID : 4891686905 Status : Not Answered Chosen Option : --Q.4  $\frac{1}{\log_2 100} - \frac{1}{\log_4 100} + \frac{1}{\log_5 100} - \frac{1}{\log_{10} 100} + \frac{1}{\log_{20} 100} - \frac{1}{\log_{25} 100} + \frac{1}{\log_{50} 100} = ?$ Options 1.0 2 -4 3.10 4.  $\frac{1}{2}$ Question Type : MCQ Question ID : 4891686879

		Status : Not Attempted and Marked For Review Chosen Option :
Q.5	The strength of a salt solution is $p$ % if 100 ml of the sol three salt solutions A, B, C are mixed in the proportion 7 has strength 20%. If instead the proportion is 3 : 2 : 1, to strength 30%. A fourth solution, D, is produced by mixin ratio of the strength of D to that of A is	lution contains p grams of salt. If 1 : 2 : 3, then the resulting solution hen the resulting solution has ng B and C in the ratio 2 : 7. The
ptions	s 1. 3 : 10	
	2. 2:5	
	3.1:4	
	4.1:3	
		Question Type : MCQ
		Question ID : 4891687089
		Status : Not Attempted and Marked For Review
Q.6	The value of the sum 7 x 11 + 11 x 15 + 15 x 19 ++ 95	5 x 99 is
Options	\$1.80730	
	2. 80773	
	3. 80751	
	4. 60707	
		Question Type : MCQ
		Question ID : <b>4891686680</b>
		Question ID : 4891686680 Status : Not Attempted and Marked For Review
Q.7	A tank is emptied everyday at a fixed time point. Immed	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option :
Q.7 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were s 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm	Question ID : <b>4891686680</b> Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or fonday, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along?
Q.7 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm	Question ID : <b>4891686680</b> Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or fonday, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along?
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Q.7 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were s 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or flonday, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question Type : MCQ Question ID : 4891687086 Status : Not Answered
Q.7 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or fonday, A alone completed filling (the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question Type : MCQ Question ID : 4891687086 Status : Not Answered Chosen Option :
Q.7 Options Q.8	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were s 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm A parallelogram ABCD has area 48 sqcm. If the length of then which one of the following is necessarily true?	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or fonday, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question Type : MCQ Question ID : 4891687086 Status : Not Answered Chosen Option :
Q.7 Options Q.8 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm A parallelogram ABCD has area 48 sqcm. If the length of then which one of the following is necessarily true? s1. 5≤s≤7	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or fonday, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question Type : MCQ Question ID : 4891687086 Status : Not Answered Chosen Option :
Q.7 Options Q.8 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm A parallelogram ABCD has area 48 sqcm. If the length of then which one of the following is necessarily true? s1. 5 <ss7 2. ss6</ss7 	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or Nonday, A alone completed filling () the tank at 6 pm. On Wednesday, A ) pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question Type : MCQ Question ID : 4891687086 Status : Not Answered Chosen Option :
Q.7 Options Q.8 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm A parallelogram ABCD has area 48 sqcm. If the length of then which one of the following is necessarily true? s1. $5 \le s \le 7$ 2. $s \le 6$ 3. $s \ne 6$ 4. $s \ge 6$	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or fonday, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question Type : MCQ Question ID : 4891687086 Status : Not Answered Chosen Option :
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Q.7 Options Q.8 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filing alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were s1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm A parallelogram ABCD has area 48 sqcm. If the length of then which one of the following is necessarily true? s1. 5≤s≤7 2. s≤6 3. s≠6 4. s≥6	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or londay, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question Type : MCQ Question ID : 4891687086 Status : Not Answered Chosen Option : of CD is 8 cm and that of AD is s cm, Question Type : MCQ
Q.7 Options Q.8 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm A parallelogram ABCD has area 48 sqcm. If the length of then which one of the following is necessarily true? s1. $5 \le s \le 7$ 2. $s \le 6$ 3. $s \ne 6$ 4. $s \ge 6$	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or londay, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question Type : MCQ Question ID : 4891687086 Status : Not Answered Chosen Option : of CD is 8 cm and that of AD is s cm, Question Type : MCQ Question Type : MCQ Question Type : MCQ
Q.7 Options Q.8 Options	A tank is emptied everyday at a fixed time point. Immed pump B or both start working until the tank is full. On M the tank at 8 pm. On Tuesday, B alone completed filling alone worked till 5 pm, and then B worked alone from 5 time was the tank filled on Thursday if both pumps were 1. 4:36 pm 2. 4:12 pm 3. 4:48 pm 4. 4:24 pm A parallelogram ABCD has area 48 sqcm. If the length of then which one of the following is necessarily true? s1. $5 \le s \le 7$ 2. $s \le 6$ 3. $s \ne 6$ 4. $s \ge 6$	Question ID : 4891686680 Status : Not Attempted and Marked For Review Chosen Option : diately thereafter, either pump A or fonday, A alone completed filling the tank at 6 pm. On Wednesday, A pm to 7 pm, to fill the tank. At what e used simultaneously all along? Question ID : 4891687086 Status : Not Answered Chosen Option : of CD is 8 cm and that of AD is s cm, Question Type : MCQ Question ID : 4891686935 Status : Not Answered Question ID : 4891686935 Status : Not Answered

		Question Type : SA
		Question ID : 4891687162
		Status : Answered
		Given Answer : 16
Q.10	How many two-digit numbers, with a non-zero digit in t	the units place, are there which are the positions of its digits?
Option	s1.8	
•	2. 6	
	3.7	
	4.5	
		Question Type : MCQ
		Question ID : 4891687476
		Status : Answered
		Chosen Option : 4
Q.11	Ramesh and Ganesh can together complete a work in 1 together, Ramesh got sick and his efficiency fell by 30 work in 17 days instead of 16 days. If Ganesh had work how many days would he have completed the remainin	I 6 days. After seven days of working %. As a result, they completed the ked alone after Ramesh got sick, in ng work?
Option	s1.11	
	2. 12	
	3. 13.5	
	4. 14.5	
		Question Type : MCQ
		Question ID : 4891686644
		Status : Not Attempted and Marked For Review
		Chosen Option :
Q.12	A jar contains a mixture of 175 ml water and 700 ml alo mixture and substitutes it by water of the same amoun again. The percentage of water in the mixture is now	cohol. Gopal takes out 10% of the it. The process is repeated once
Options	<b>s</b> 1. 25.4	
	2. 20.5	
	3. 35.2	
	4. 30.3	
		Status : Answered
		Chosen Ontion : 3
Q.13	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is	the ratio 11 : 14. After an appeal, w scores are in the ratio 47 : 56. The s
Q.13 Options	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is s 1. 4 : 3	the ratio 11 : 14. After an appeal, w scores are in the ratio 47 : 56. The s
Q.13 Options	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is s 1. 4 : 3 2. 8 : 5	the ratio 11 : 14. After an appeal, w scores are in the ratio 47 : 56. The s
Q.13 Options	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is s1.4:3 2.8:5 3.3:2	the ratio 11 : 14. After an appeal, w scores are in the ratio 47 : 56. The s
Q.13 Options	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is s 1. 4 : 3 2. 8 : 5 3. 3 : 2 4. 5 : 4	the ratio 11 : 14. After an appeal, w scores are in the ratio 47 : 56. The s
Q.13 Options	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is s 1. 4 : 3 2. 8 : 5 3. 3 : 2 4. 5 : 4	the ratio 11 : 14. After an appeal, w scores are in the ratio 47 : 56. The s
Q.13 Options	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is s1.4:3 2.8:5 3.3:2 4.5:4	the ratio 11 : 14. After an appeal, w scores are in the ratio 47 : 56. The s
Q.13 Options	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is \$1.4:3 2.8:5 3.3:2 4.5:4	Question Type : MCQ Question ID : 4891687100
Q.13 Options	The scores of Amal and Bimal in an examination are in their scores increase by the same amount and their ne ratio of Bimal's new score to that of his original score is s 1. 4 : 3 2. 8 : 5 3. 3 : 2 4. 5 : 4	Question Type : MCQ Question ID : 4891687100 Status : Marked For Review

	Question Type : SA
	Question ID : <b>4891687069</b>
	Status : Answered
	Given Answer : 30
Q.15 There are two drums, each containing a mixture of paints A and B in the ratio 18 : 7. The mixtures from drums 1 and 2 are mixed in t final mixture, A and B are in the ratio 13 : 7. In drum 2, then A and	. In drum 1, A and B are he ratio 3 : 4 and in this B were in the ratio
<b>Dptions</b> 1. 229 : 141	
2. 220 : 149	
3. 239 : 161	
4. 251 : 163	
	Question Type : MCQ
	Question ID : 4891687104
	Status : Not Answered
	Chosen Option :
Q.16 The area of a rectangle and the square of its perimeter are in the lengths of the shorter and longer sides of the rectangle are in the	ratio 1 : 25. Then the ratio
Options 1. 1:4	
2. 2:9	
3. 1.3	
4. 5.0	
	Question Type : MCQ
	Question ID : 4891687106
	Status : Answered
Q.17 If $p^3 = q^4 = r^5 = s^6$ , then the value of $log_s(pqr)$ is equal to	
Options 1. 1	
2 24	
- 5	
3. $\frac{16}{5}$	
4. $\frac{47}{10}$	
	Question Type : MCQ
	Question ID : 4891686661
	Status : Not Answered Chosen Option :
<sup>و_1</sup> Gopal borrows Rs. X from Ankit at 8% annual interest. H	le then adds Rs. Y nual interest. At the

		Question Type	: SA
		Question ID	4891687506
		Status	Answered
		Given Answer	: 26
).1 In 9 pl Tl b(	a tournament, there are 43 junior level and 51 senior level participants lay one match. Each pair of seniors play one match. There is no junior v he number of girl versus girl matches in junior level is 153, while the nu oy matches in senior level is 276. The number of matches a boy plays a	Each pair of juniors ersus senior match. mber of boy versus gainst a girl is	
			· 64
		Question Type	· 4891687145
		Status	Answered
		Given Answer	: 250
).2 A 0 th is 1 er	water tank has inlets of two types A and B. All inlets of type A when op- ne same rate. All inlets of type B, when open, bring in water at the same completely filled in 30 minutes if 10 inlets of type A and 45 inlets of typ hour if 8 inlets of type A and 18 inlets of type B are open. In how many mpty tank get completely filled if 7 inlets of type A and 27 inlets of type	en, bring in water at rate. The empty tank be B are open, and in ninutes will the B are open?	
		Question Type	. SA . 4001607452
		Question ID	· 4091007433
		Given Answer	· 30
•			
	2. 80 + 16π 3. 82 + 24π 4. 88 + 12π	Question Type Question ID	: MCQ : 4891687423
	2. 80 + 16π 3. 82 + 24π 4. 88 + 12π	Question Type Question ID Status	: MCQ : 4891687423 : Answered
	2. 80 + 16π 3. 82 + 24π 4. 88 + 12π	Question Type Question ID Status Chosen Option	: MCQ : 4891687423 : Answered : 1
Q.22	2. 80 + 16π 3. 82 + 24π 4. 88 + 12π If the sum of squares of two numbers is 97, then which one of the foll their product? Is 1. 16 232	Question Type Question ID Status Chosen Option	: MCQ : 4891687423 : Answered : 1
Q.22 Option	2.80 + 16π 3.82 + 24π 4.88 + 12π If the sum of squares of two numbers is 97, then which one of the foll their product? Is 1.16 232 3.48 4.64	Question Type Question ID Status Chosen Option	: MCQ : 4891687423 : Answered : 1
Q.22 ption	2.80 + 16π 3.82 + 24π 4.88 + 12π If the sum of squares of two numbers is 97, then which one of the foll their product? is 1.16 232 3.48 4.64	Question Type Question ID Status Chosen Option owing cannot be Question Type Question ID Status Chosen Option	: MCQ : 4891687423 : Answered : 1 : MCQ : 4891687460 : Not Answered :
Q.22 ption Q.23	If the sum of squares of two numbers is 97, then which one of the foll their product?If the sum of squares of two numbers is 97, then which one of the foll their product?Is 1. 162. $-32$ 3. 484. 64For two sets A and B, let AΔB denote the set of elements which belon both. If P = {1,2,3,4}, Q = {2,3,5,6}, R = {1,3,7,8,9}, S = {2,4,9,10}, then the elements in (PΔQ)Δ(RΔS) is	Question Type Question ID Status Chosen Option owing cannot be Question Type Question ID Status Chosen Option	: MCQ : 4891687423 : Answered : 1 : MCQ : 4891687460 : Not Answered :
Q.22 ption Q.23 ption	If the sum of squares of two numbers is 97, then which one of the foll their product? Is 1. 16 232 3. 48 4. 64 For two sets A and B, let AΔB denote the set of elements which belon both. If P = {1,2,3,4}, Q = {2,3,5,6}, R = {1,3,7,8,9}, S = {2,4,9,10}, then the elements in (PΔQ)Δ(RΔS) is is 1. 7	Question Type Question ID Status Chosen Option owing cannot be Question Type Question ID Status Chosen Option	: MCQ : 4891687423 : Answered : 1 : MCQ : 4891687460 : Not Answered :
Q.22 ption Q.23 ption	If the sum of squares of two numbers is 97, then which one of the foll their product? If the sum of squares of two numbers is 97, then which one of the foll their product? Is 1.16 232 3.48 4.64 For two sets A and B, let AAB denote the set of elements which belon both. If P = {1,2,3,4}, Q = {2,3,5,6}, R = {1,3,7,8,9}, S = {2,4,9,10}, then the elements in (PAQ) $\Delta$ (RAS) is Is 1.7 2.9	Question Type Question ID Status Chosen Option owing cannot be Question Type Question ID Status Chosen Option	: MCQ : 4891687423 : Answered : 1 : 1 : MCQ : 4891687460 : Not Answered :
Q.22 ption Q.23 ption	If the sum of squares of two numbers is 97, then which one of the foll their product? If the sum of squares of two numbers is 97, then which one of the foll their product? Is 1. 16 232 3. 48 4. 64 For two sets A and B, let AAB denote the set of elements which belon both. If P = {1,2,3,4}, Q = {2,3,5,6}, R = {1,3,7,8,9}, S = {2,4,9,10}, then the elements in (PAQ) $\Delta$ (RAS) is Is 1. 7 2. 9 3. 8	Question Type Question ID Status Chosen Option owing cannot be Question Type Question ID Status Chosen Option g to A or B but not the number of	: MCQ : 4891687423 : Answered : 1 : MCQ : 4891687460 : Not Answered :
Q.22 ption Q.23 ption	1.80 + 16π         3.82 + 24π         4.88 + 12π    If the sum of squares of two numbers is 97, then which one of the foll their product? Is 1.16 232 3.48 4.64 For two sets A and B, let AΔB denote the set of elements which belon both. If P = {1,2,3,4}, Q = {2,3,5,6}, R = {1,3,7,8,9}, S = {2,4,9,10}, then the elements in (PΔQ)Δ(RΔS) is Is 1.7 2.9 3.8 4.6	Question Type Question ID Status Chosen Option owing cannot be Question Type Question ID Status Chosen Option g to A or B but not the number of	: MCQ : 4891687423 : Answered : 1 : MCQ : 4891687460 : Not Answered :
Q.22 ption Q.23 ption	If the sum of squares of two numbers is 97, then which one of the foll their product? Is 1. 16 232 3. 48 4. 64 For two sets A and B, let AΔB denote the set of elements which belon both. If $P = \{1,2,3,4\}, Q = \{2,3,5,6\}, R = \{1,3,7,8,9\}, S = \{2,4,9,10\}, then theelements in (PΔQ)Δ(RΔS) is1. 72. 93. 84. 6$	Question Type Question ID Status Chosen Option owing cannot be Question Type Question ID Status Chosen Option g to A or B but not the number of	: MCQ : 4891687423 : Answered : 1 : MCQ : 4891687460 : Not Answered :

	Question ID : 4891686691 Status : Answered
	Chosen Option : 4
$0.24$ The smallest integer p for which $4^{0} > 17^{19}$ holds is do	cost to
tions 1, 33	sest to
2.37	
3. 35	
4. 39	
	Question Type : MCQ
	Question ID : 4891686664
	Status : Not Attempted and Marked For Review
	Chosen Option :
<ul> <li><sup>2</sup> On a triangle ABC, a circle with diameter BC is</li> <li><sup>5</sup> AC at points P and Q, respectively. If the length cm, 25 cm, and 20 cm respectively, then the length cm</li> </ul>	drawn, intersecting AB and ns of AB, AC, and CP are 30 ngth of BQ, in cm, is
	Question Type : SA
	Question ID : 4891687470
	Status : Answered
	Given Answer : 20
<ul> <li><sup>2</sup> Let f(x)=max{5x, 52-2x<sup>2</sup>}, where x is any positive real numl</li> <li>value of f(x) is</li> </ul>	ber. Then the minimum possible
	Question Type : SA
	Question ID : 4891687163
	Status : Answered
	Given Answer : 52
9.2 The smallest integer n such that n <sup>3</sup> - 11n <sup>2</sup> + 32n - 28 > 0 is 7	5
. <sup>2</sup> The smallest integer n such that n <sup>3</sup> - 11n <sup>2</sup> + 32n - 28 > 0 is 7	Question Type : <b>SA</b>
.2 The smallest integer n such that n <sup>3</sup> - 11n <sup>2</sup> + 32n - 28 > 0 i∉ 7	Question Type : SA Question ID : 4891687503
.2 The smallest integer n such that n <sup>3</sup> - 11n <sup>2</sup> + 32n - 28 > 0 is	Question Type : SA Question ID : 4891687503 Status : Answered
.2 The smallest integer n such that n <sup>3</sup> - 11n <sup>2</sup> + 32n - 28 > 0 i∉ 7	Question Type : <b>SA</b> Question ID : <b>4891687503</b> Status : <b>Answered</b> Given Answer : <b>8</b>
<ul> <li>P.2 The smallest integer n such that n<sup>3</sup> - 11n<sup>2</sup> + 32n - 28 &gt; 0 is</li> <li>P.2 The arithmetic mean of x, y and z is 80, and tha where u=(x+y)/2 and v=(y+z)/2. If x ≥ z, then the x is</li> </ul>	Question Type : <b>SA</b> Question ID : <b>4891687503</b> Status : <b>Answered</b> Given Answer : <b>8</b> at of x, y, z, u and v is 75, e minimum possible value of
<ul> <li><sup>1.2</sup> The smallest integer n such that n<sup>3</sup> - 11n<sup>2</sup> + 32n - 28 &gt; 0 is</li> <li><sup>2.2</sup> The arithmetic mean of x, y and z is 80, and tha where u=(x+y)/2 and v=(y+z)/2. If x ≥ z, then the x is</li> </ul>	Question Type : SA Question ID : 4891687503 Status : Answered Given Answer : 8 tt of x, y, z, u and v is 75, e minimum possible value of Question Type : SA
<ul> <li><sup>1.2</sup> The smallest integer n such that n<sup>3</sup> - 11n<sup>2</sup> + 32n - 28 &gt; 0 is</li> <li><sup>2.2</sup> The arithmetic mean of x, y and z is 80, and tha</li> <li><sup>8</sup> where u=(x+y)/2 and v=(y+z)/2. If x ≥ z, then the x is</li> </ul>	Question Type : SA Question ID : 4891687503 Status : Answered Given Answer : 8 tt of x, y, z, u and v is 75, e minimum possible value of Question Type : SA Question ID : 4891687176
<ul> <li><sup>2</sup> The smallest integer n such that n<sup>3</sup> - 11n<sup>2</sup> + 32n - 28 &gt; 0 is</li> <li><sup>2</sup> The arithmetic mean of x, y and z is 80, and tha</li> <li><sup>8</sup> where u=(x+y)/2 and v=(y+z)/2. If x ≥ z, then the x is</li> </ul>	Question Type : SA Question ID : 4891687503 Status : Answered Given Answer : 8 at of x, y, z, u and v is 75, e minimum possible value of Question Type : SA Question ID : 4891687176 Status : Answered
<ul> <li><sup>1.2</sup> The smallest integer n such that n<sup>3</sup> - 11n<sup>2</sup> + 32n - 28 &gt; 0 is</li> <li><sup>2.2</sup> The arithmetic mean of x, y and z is 80, and tha where u=(x+y)/2 and v=(y+z)/2. If x ≥ z, then the x is</li> </ul>	Question Type : SA Question ID : 4891687503 Status : Answered Given Answer : 8 tt of x, y, z, u and v is 75, e minimum possible value of Question Type : SA Question ID : 4891687176 Status : Answered Given Answer : 50
<ul> <li>P.2 The smallest integer n such that n<sup>3</sup> - 11n<sup>2</sup> + 32n - 28 &gt; 0 is</li> <li>P.2 The arithmetic mean of x, y and z is 80, and tha where u=(x+y)/2 and v=(y+z)/2. If x ≥ z, then the x is</li> <li>P.2 If a and b are integers such that 2x<sup>2</sup> -ax + 2 &gt; 0 numbers x, then the largest possible value of 2a</li> </ul>	s Question Type : SA Question ID : 4891687503 Status : Answered Given Answer : 8 at of x, y, z, u and v is 75, e minimum possible value of Question Type : SA Question ID : 4891687176 Status : Answered Given Answer : 50 0 and $x^2$ -bx + 8 ≥ 0 for all real a-6b is
<ul> <li><sup>2</sup> The smallest integer n such that n<sup>3</sup> - 11n<sup>2</sup> + 32n - 28 &gt; 0 is</li> <li><sup>2</sup> The arithmetic mean of x, y and z is 80, and tha where u=(x+y)/2 and v=(y+z)/2. If x ≥ z, then the x is</li> <li><sup>2</sup> If a and b are integers such that 2x<sup>2</sup> -ax + 2 &gt; 0 numbers x, then the largest possible value of 2a</li> </ul>	S Question Type : SA Question ID : 4891687503 Status : Answered Given Answer : 8 Answer : 8 Answer : 8 Question Type : SA Question ID : 4891687176 Status : Answered Given Answer : 50 Question Type : SA Question Type : SA
<ul> <li><sup>1.2</sup> The smallest integer n such that n<sup>3</sup> - 11n<sup>2</sup> + 32n - 28 &gt; 0 is</li> <li><sup>2.2</sup> The arithmetic mean of x, y and z is 80, and tha where u=(x+y)/2 and v=(y+z)/2. If x ≥ z, then the x is</li> <li><sup>2.2</sup> If a and b are integers such that 2x<sup>2</sup> -ax + 2 &gt; 0 numbers x, then the largest possible value of 2a</li> </ul>	s Question Type : SA Question ID : 4891687503 Status : Answered Given Answer : 8 at of x, y, z, u and v is 75, e minimum possible value of Question Type : SA Question ID : 4891687176 Status : Answered Given Answer : 50 a - 6b is Question Type : SA Question Type : SA Question Type : SA Question ID : 4891687170

		Given Answer : 0
Q.30	Let $a_1, a_2,, a_{52}$ be positive integers such that $a_1 < a_2 < a_1$ arithmetic mean is one less than the arithmetic mean of the largest possible value of $a_1$ is	< a <sub>52</sub> . Suppose, their a <sub>2</sub> , a <sub>3</sub> ,, a <sub>52</sub> . If a <sub>52</sub> = 100, then
ption	<b>s</b> 1. 20	
	2. 45	
	3. 23	
	4. 48	
		Question Type : MCQ
		Question ID : 4891687097
		Status : Not Attempted and Marked For Review
		Chosen Option :
Q.31	Points A, P, Q and B lie on the same line such that P, Q an km and 300 km away from A. Cars 1 and 2 leave A at the Simultaneously, car 3 leaves B and moves towards A. Ca P. If each car is moving in uniform speed then the ratio or is	d B are, respectively, 100 km, 200 same time and move towards B. r 3 meets car 1 at Q, and car 2 at f the speed of car 2 to that of car 1
ption	s1.2:9	
	2.2:7	
	3.1:4	
	4.1:2	
		Status : Not Attempted and Marked For Review
2.3 OI	n a long stretch of east-west road, A and B are two points a	Status : Not Attempted and Marked For Review Chosen Option :
2.3 Or 2 Or th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The
2.3 Oı 2 Oı th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The
Q.3 Oı 2 Oı th di	n a long stretch of east-west road, A and B are two points on ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA
2.3 Oı 2 Oı th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered
2.3 Oı 2 Oı th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50
Q.3 Oı 2 Oı th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50
Q.3 Or 2 Or th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture i the unknown concentration of S is	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50
Q.3 Or 2 Or th di Q.33	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixture is the unknown concentration of S is s 1. 55%	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50
Q.3 Or 2 Or th di Q.33	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is \$ 1. 55% 2. 52%	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50
Q.3 Or 2 Or th di Q.33	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is s 1. 55% 2. 52% 3. 48%	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50
Q.3 Or 2 Or th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is s 1. 55% 2. 52% 3. 48% 4. 50%	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50
Q.3 Or 2 Or th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is \$ 1.55% 2.52% 3.48% 4.50%	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50
Q.3 Or 2 Or th di Q.33	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is s 1. 55% 2. 52% 3. 48% 4. 50%	Status : Not Attempted and Marked For Review         Chosen Option :         such that B is 350 km west of A.         If they move towards each other,         then they meet in 7 hrs. The         Question Type : SA         Question ID : 4891686961         Status : Answered         Given Answer : 50
Q.3 OI 2 OI th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is s 1. 55% 2. 52% 3. 48% 4. 50%	Status : Not Attempted and Marked For Review         Chosen Option :         such that B is 350 km west of A.         If they move towards each other,         then they meet in 7 hrs. The         Question Type : SA         Question ID : 4891686961         Status : Answered         Given Answer : 50         Intion, say, S of unknown         ure is then mixed with an equal         is a 31.25% ethanol solution, then
Q.3 O 2 O th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is s 1. 55% 2. 52% 3. 48% 4. 50%	Status : Not Attempted and Marked For Review         Chosen Option :         such that B is 350 km west of A.         If they move towards each other,         then they meet in 7 hrs. The         Question Type : SA         Question ID : 4891686961         Status : Answered         Given Answer : 50         Iution, say, S of unknown         ure is then mixed with an equal         is a 31.25% ethanol solution, then         Question Type : MCQ         Question ID : 4891687435         Status : Not Attempted and Marked For Review
Q.3 O 2 O th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixtivolume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is s 1. 55% 2. 52% 3. 48% 4. 50%	Status : Not Attempted and Marked For Review Chosen Option :         such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The         Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50         Jution, say, S of unknown ure is then mixed with an equal is a 31.25% ethanol solution, then         Question Type : MCQ Question ID : 4891687435 Status : Not Attempted and Marked For Review Chosen Option :
2.3 0 2 0 th di	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is \$1.55% 2.52% 3.48% 4.50%	Status : Not Attempted and Marked For Review Chosen Option :         Such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The         Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50         Iution, say, S of unknown ure is then mixed with an equal is a 31.25% ethanol solution, then         Question Type : MCQ Question ID : 4891687435 Status : Not Attempted and Marked For Review Chosen Option :         60       Lut 2
2.3 O 2 O th di 0.33	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture i the unknown concentration of S is \$ 1.55% 2.52% 3.48% 4.50% N and x are positive integers such that N <sup>N</sup> = 2 <sup>1</sup> tegral multiple of 2 <sup>X</sup> then the largest possible x	Status : Not Attempted and Marked For Review         Chosen Option :         such that B is 350 km west of A.         If they move towards each other,         then they meet in 7 hrs. The         Question Type : SA         Question ID : 4891686961         Status : Answered         Given Answer : 50         Intion, say, S of unknown         ure is then mixed with an equal         is a 31.25% ethanol solution, then         Question Type : MCQ         Question ID : 4891687435         Status : Not Attempted and Marked For Review         Chosen Option :         60 and N <sup>2</sup> + 2 <sup>N</sup> is an
2.3 0 2 0 th di Q.33 ption	n a long stretch of east-west road, A and B are two points a ne car starts from A and another from B at the same time. en they meet after 1 hour. If they both move towards east, fference between their speeds, in km per hour, is A 20% ethanol solution is mixed with another ethanol sol concentration in the proportion 1:3 by volume. This mixt volume of 20% ethanol solution. If the resultant mixture is the unknown concentration of S is \$1.55% 2.52% 3.48% 4.50% N and x are positive integers such that N <sup>N</sup> = 2 <sup>1</sup> ttegral multiple of 2 <sup>x</sup> , then the largest possible x	Status : Not Attempted and Marked For Review Chosen Option : such that B is 350 km west of A. If they move towards each other, then they meet in 7 hrs. The Question Type : SA Question ID : 4891686961 Status : Answered Given Answer : 50 Jution, say, S of unknown ure is then mixed with an equal is a 31.25% ethanol solution, then Question Type : MCQ Question ID : 4891687435 Status : Not Attempted and Marked For Review Chosen Option :

Question Type : SA Question ID : 4891687168

Status : Answered

Given Answer : 51

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