Notations:
1. Options shown in green color and with ✓ icon are correct.
2. Options shown in red color and with ✗ icon are incorrect.

Question Paper Name: TS ICET 2019
Subject Name: TS ICET 2019
Creation Date: 2019-05-23 13:38:19
Duration: 150
Total Marks: 200
Display Marks: No
Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes
Calculator: None
Magnifying Glass Required?: No
Ruler Required?: No
Eraser Required?: No
Scratch Pad Required?: No
Rough Sketch/Notepad Required?: No
Protractor Required?: No
Show Watermark on Console?: Yes
Highlighter: No
Auto Save on Console?: No

Group Number: 1
Group Id: 66726922
Group Maximum Duration: 0
Group Minimum Duration: 150
Revisit allowed for view?: No
Revisit allowed for edit?: No
Break time: 0
Group Marks: 200

Analytical Ability
Section Id: 66726964
Section Number: 1
Section type: Online
Mandatory or Optional: Mandatory
Number of Questions: 60
Number of Questions to be attempted: 60
Section Marks: 75
Display Number Panel: Yes
Group All Questions: No
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
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How many teachers teach Physics?

I. There are 11 teachers who teach Mathematics or Physics

II. Of these 11 teachers 7 teach Mathematics and 3 teach both Mathematics and Physics
Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 2  Question Id: 6672694364  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  
Single Line Question Option: No  Option Orientation: Vertical  
Correct Marks: 1  Wrong Marks: 0
Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

Is the line PQ parallel to X-axis?

X- లో పడిన పి షార్డు త్రికోణం ఎంచించేది?
Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number: 3  Question Id: 6672694365  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes
Single Line Question Option: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0
(1) Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
(b) Mark choice (2) if the statement II alone is sufficient to answer the question.
(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

What is sum of interior angles of the polygon?

What is sum of interior angles of the polygon?

I. Polygon is a closed figure
   చతుర్షిరి సుమారు

II. The polygon has 7 sides
    కర్తాలి కే 7 కొండా కొండా
Options:

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 4  Question Id: 6672694366  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
(b) Mark choice (2) if the statement II alone is sufficient to answer the question.
(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

For integers $a$ and $b$ is $(a^3 + b^3)^{1/3}$ an integer?

అసాధారణం a మరియు b ఉన్న $(a^3 + b^3)^{1/3}$ ఒక సాధారణం?

I. $a^3 + b^3$ is an even integer

$a^3 + b^3$ ఒక సాధారణం

II. $a^3 + b^3$ is equal to the volume of a box with dimensions 12cm, 18cm and 125 cm

$12$ సమీఖి, $18$ సమీఖి, $125$ సమీఖి. నిమిషాలు రూపంలో పరిమాణం ఉంటుంది

$12$ సమీఖి, $18$ సమీఖి, $125$ సమీఖి. నిమిషాలు రూపంలో పరిమాణం ఉంటుంది.
Options:
1. ✗ 1
2. ✅ 2
3. ✗ 3
4. ✗ 4

Question Number: 5  Question Id: 6672694367  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
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(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

A square is inscribed in a circle. What is the area of the square?

I. Radius of that circle is 1 unit

II. The center of that circle is (0, 0)
Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 6  Question Id: 6672694368  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
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(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

Among the five rivers $R_1, R_2, R_3, R_4$, and $R_5$ which one is the short river?

I. $R_3$ is the longest river and $R_1$ is shorter than $R_2$ but longer than $R_5$.

II. $R_4$ is a little shorter than $R_2$ and a little longer than $R_1$. 

Options:

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number: 7  Question Id: 6672694369  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
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(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

Is the positive integer $n$ a multiple of 175?

పైన్ను ఇన్నింటి $n$, 175 విభాగంగా ఉండాలి?

I. 125 divides $n$

$n \equiv 125$ కట్టబడింది.

II. 35 divides $n$

$n \equiv 35$ కట్టబడింది.
Options:

1. ✗  1
2. ✗  2
3. ✓  3
4. ✗  4

Question Number: 8  Question Id: 6672694370  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
(i) Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
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(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

What is the integral value of $x$?

$x$ మిళ్లించేది ఎంతం? 

I. $10 < x < 20$
II. $10 < x + 1 < 20$

Options:
1. * 1
2. ✅ 2
3. ✗ 3
4. ✗ 4

Question Number : 9  Question Id : 6672694371  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
(b) Mark choice (2) if the statement II alone is sufficient to answer the question.
(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

Is N divisible by 48?

48 కంటి N వచ్చినా వాడవంది?

I. \[ N = (a-4)(a-3)(a-2)(a-1), \ a \geq 5 \]

II. \[ N \] is divisible by 8 and 6

8 కంటి 6 కంటి వచ్చినా వాడవంది.
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 10  Question Id : 6672694372  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

Are \( x \) and \( y \) rational numbers?

\( x \) మరియు \( y \) వాస్తావ సంఖ్యలు?

I. \( x + y \) is a rational number

\( x + y \) వాస్తావ సంఖ్య

II. \( xy \) is a rational number

\( xy \) వాస్తావ సంఖ్య
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Correct Marks: 1 Wrong Marks: 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
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Is \( x = 93y6 \) divisible by 9

\( 9 \text{ సంఖ్య } x = 93y6 \text{ ఎలా భాగితుంది?} \)

I. \( y \) is divisible by 9

II. \( y \) is divisible by 3
Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(i) **Data Sufficiency**

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(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

At how many points do the two circles intersect?

ఎందుకు రేఖాస్ఫలాల్లోనే రెండు వ్యాసాలు రేఖాస్ఫలాల్లో ఎందుకు పరిచేయబడినందున్నది?

I. The distance between their centres is 15 cm

 sensory రెండు స్ఫలాలు రేఖాస్ఫలాల్లో ఎందుకు పరిచేయబడినందున్నది?

II. The radii of the two circles are equal

 రేఖాస్ఫలాల్లో ఎందుకు పరిచేయబడినందున్నది?
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
(i) Data Sufficiency

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What is the digit in the units place of $n$?

$n$ పదార్ధంలో ఒచ్చిందానికి ఎలా గాను?

I. $n = 6^k$, $k$ is an integer $\geq 1$

II. $n = 8^k$, $k$ is an integer $\geq 1$
Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Correct Marks: 1 Wrong Marks: 0
(i) **Data Sufficiency**

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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If $a$ and $b$ are real numbers, is $a > b$?

$a < b \quad b < a \quad a < b \quad a > b$?

I. $b$ is the real root of $x^3 - 1 = 0$

$x^3 - 1 = 0$ యొక్క సాధారణత్వం బె, బె

II. $a$ is the smaller of the roots of $x^2 - 1 = 0$

$x^2 - 1 = 0$ యొక్క సాధారణత్వం అంచనా బె, బె
(i) **Data Sufficiency**

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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If $A \neq \emptyset$ and $R$ is a relation on set $A$, then is $R$ Transitive?

$A \neq \emptyset$ and $R$ is a relation on set $A$, then is $R$ Transitive?

I. $R = A \times A$

II. $R \subseteq A \times A$

Options:
1. 1
2. 2
3. 3
4. 4
(1) **Data Sufficiency**

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(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

What is the selling price of each article?

What is the selling price of each article?

I. The cost price of each article is Rs.500
   
   I. The cost price of each article is Rs.500

II. The loss on one article is equal to the gain on other article
   
   II. The loss on one article is equal to the gain on other article
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statements alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

What is the shortest distance between villages X and Y?

X నుండి Y నిండి ఎత్తైన అతి దరికి ఎలా ఉండేది?

I. Village X is to the north of Village Z at a distance of 35 km
   Z నుండి X లోకి 35 కి.మీ. దూరం ఉంది.

II. Village Y is at a distance of 20km from Z
    Z నుండి Y లోకి 20 కి.మీ. దూరం ఉంది.
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number: 18  Question Id: 6672694380  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes
Single Line Question Option: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

How is Y related to X?

I. Y is the spouse of a parent of X
   X యొక్క ప్రపంచంలో యొక్క పాయా యొక్క మండి

II. X is the brother of Y’s daughter
    Y యొక్క కుమారు యొక్క మండి
    X యొక్క కుమారు
Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

X and Y are in partnership business for one year. At the end of the year, a profit of Rs.90,000 was earned. What is Y’s share in the profit?

I. Y invested Rs.1,40,000
   Y invested Rs.1,40,000

II. X withdraw his capital after 9 months
    9 మీ. పంతకలో X తన కచారును తీసిపోయింది.
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 20  Question Id : 6672694382  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
(i) Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

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(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

What is the relative speed of the boy swimming against the current?

What is the relative speed of the boy swimming against the current?

I. Speed of the boy in still waters is 5 kmph
   తేలు చాలక స్పీడ్ 5 కి.మి/పండదు

II. Speed of the current in 2 kmph
   పరిస్థితి స్పీడ్ 2 కి.మి/పండదు
(i) **Problem Solving**

(a) **Sequence and Series**

नोटः: इन्हीं अनुभवि 21 तक 30 तक संख्याओं व अक्षरों का एक समांतराल एक निश्चित पैटर्न को दिया गया है। और मशीन के लिए एक स्थान छोड़ा है। इसे चाहिए अनुभवियों के द्वारा दिए गए चुनावों का पूरा करना है इस पैटर्न को दिखाने वाली प्रवृत्ति।

**ACE : FHJ : : LNP : ______________**

(1) QSU
(2) QTV
(3) RUW
(4) RVX
(i) **Problem Solving**

(a) **Sequence and Series**

**Note:** In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

**Question:** Fill in the blanks 21 to 30.

Telangana: Hyderabad: ________
Telangana: Jharkhand: ________

**Options:**
1. Patna
2. Hazaribagh
3. Ranchi
4. Lucknow

**Question Number:** 23  **Question Id:** 6672694385  **Question Type:** MCQ  **Option Shuffling:** No  **Display Question Number:** Yes  **Single Line Question Option:** No  **Option Orientation:** Vertical  **Correct Marks:** 1  **Wrong Marks:** 0
Problem Solving

Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

Question:

\[ \text{CXDW} : : \text{EVFU} : \text{GTHS} \]

Options:

1. A Y B Z
2. B Z A Y
3. A Z B Y
4. B Y Z A

Question Number: 24  Question Id: 6672694386  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
(i) Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

A9Z: B7Y : : _________ : D3W

(1) C 5 X
(2) X 5 C
(3) E 1 X
(4) C 4 X

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(i) Problem Solving

(a) Sequence and Series

नंबर 21 .until 30 లో ఎన్ని విశ్లేషణల కొరకు నిర్ణయం చేయడానికి వాటి పరిమితం వచ్చి బాగా

చాలాసాధనం సాధనాభావం ఇస్తే అనేకం చాలాసాధనం సాధనాభావం ఇస్తే అనేకం

P : ___ : U : C : 7

(1) 10
(2) 2
(3) \(\frac{11}{19}\)
(4) 17

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 26  Question Id : 6672694388  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Problem Solving

Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

L3M4 : : P5Q6 : R7S8

(1) J1K2  
(2) K2J1  
(3) J2K3  
(4) K3J1

Options:
1. ✓ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 27  Question Id : 6672694389  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Problem Solving

Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.


(1) 15A19
(2) 16A20
(3) 17A21
(4) 18A22

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
(i) Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

LAKE : ______ : MILK : HDGF

(1) HWGA
(2) HVFB
(3) GUEY
(4) GVFZ
Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

AROUND: __________: : POLITY : SROLWB

(1) DURXQG
(2) DVSYPH
(3) EURXQG
(4) EWTZRI

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 30  Question Id: 6672694392  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
(i) Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

20736: 144 : : __________ : 288

(1) 82944
(2) 74886
(3) 72992
(4) 69886

Options:
1. ✓ 1
2. * 2
3. * 3
4. * 4
Note: In questions numbered 31 to 35 pick the odd thing out:

గమనిక: 31 నుంచి 35 వరకు ఉండే విషయాలను కేంద్రం చేసే గదువు చేయండి.

(1) $x^2 - 4x + 4 = 0$
(2) $x^2 - 6x + 9 = 0$
(3) $x^2 + 8x + 16 = 0$
(4) $x^2 + 10x + 18 = 0$

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Note: In questions numbered 31 to 35 pick the odd thing out:

గమనిక: 31 నుంచి 35 వరకు ఉండే విషయాలను కేంద్రం చేసే గదువు చేయండి.

(1) $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 0 & 0 & 1 \end{bmatrix}$
(2) $\begin{bmatrix} 2 & 3 & 4 \\ 0 & 1 & 6 \\ 4 & 6 & 8 \end{bmatrix}$
(3) $\begin{bmatrix} 1 & 0 & 1 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
(4) $\begin{bmatrix} 1 & 2 & 3 \\ 1 & 0 & 6 \\ 0 & 0 & 1 \end{bmatrix}$

Options:
1. ✗ 1
Question Number : 33  Question Id : 6672694395  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

Note: In questions numbered 31 to 35 pick the odd thing out:

31 నుంచి 35 వరకు ఏంటి ప్రపంచంలో ప్రాంతం కనిపిస్తుంది.

(1) Fish  మంది
(2) Frog  పండ్ల
(3) Crocodile  క్రోసిలెడ్
(4) Tortoise  తర్తి

Options :
1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4

Question Number : 34  Question Id : 6672694396  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

Note: In questions numbered 31 to 35 pick the odd thing out:

31 నుంచి 35 వరకు ఏంటి ప్రపంచంలో ప్రాంతం కనిపిస్తుంది.

(1) EVHS
(2) DWFU
(3) HSKP
(4) KQNN

Options :
1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4
Note: In questions numbered 31 to 35 pick the odd thing out:

(1) Range
(2) Median
(3) Standard Deviation
(4) Coefficient

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

1, 2. \(\frac{27}{8}\), 4. \(\frac{125}{32}\)

(1) \(\frac{25}{8}\)
(2) \(\frac{27}{8}\)
(3) 6
(4) \(\frac{175}{64}\)

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

36 to 45 ల ప్రతి ప్రశ్న ప్రత్యేక పరిణామం. అది చెప్పండి. తియేండి,

(6, 8, 7), (10, 12, 11), (14, 16, 15), ____________, (22, 24, 23)

(1) (18, 20, 19)
(2) (17, 19, 18)
(3) (16, 18, 17)
(4) (15, 17, 19)

Options:
1. ✓ 1
2. * 2
3. * 3
4. * 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

36 నాటి 45 వరకు సమీపంలోని ఉపరితలాలను సంఖ్యలు నమోదు చేసుకున్నది. అనుమతిలోని
గానూ వచ్చిన సమీపంలో సమీపాలను సంఖ్యల నమోదు చేసి ప్రక్రియా చేసుకోవచ్చు.

\[ \frac{22}{9}, 25, \frac{28}{7}, \frac{33}{3}, \text{______} \]

1. \(35\frac{1}{3}\)
2. \(36\frac{1}{6}\)
3. 40
4. 41

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

256, 4, 196, 16, 144, 36, 100, 64, ___

(1) 96
(2) 72
(3) 64
(4) 32

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

\[ -\frac{1}{6}, \quad \frac{1}{3}, \quad 1\frac{1}{3}, \quad 2\frac{5}{6}, \quad 4\frac{5}{6}, \quad 7\frac{1}{3}, \quad \boxed{\text{______}} \]

(1) \( \frac{8}{6} \)

(2) \( 10\frac{1}{6} \)

(3) 11

(4) \( 10\frac{1}{3} \)
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.


gharu:
36 ముందే 45 వరకు అవిస్తులు అవిస్తులు వేయాయినప్పటికి రిసుపతింది. అవిస్తులు గుర్తుగా గుర్తుగా తిరిగించడానికి అనిపించుండి.

3, 15, 35, 63, 99, 143, ______

(1) 164
(2) 178
(3) 192
(4) 195

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✅ 4

Question Number : 42 Question Id : 6672694404 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

gharu:
36 ముందే 45 వరకు అవిస్తులు అవిస్తులు వేయాయినప్పటికి రిసుపతింది. అవిస్తులు గుర్తుగా గుర్తుగా తిరిగించడానికి అనిపించుండి.

2, 10, 30, 68, 130, 222, ______

(1) 350
(2) 343
(3) 303
(4) 290
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.


24, 35, 48, 63, 80, 99, __________

1. 118, 136, 164
2. 126, 144, 169
3. 120, 143, 168
4. 124, 148, 196

Options:
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

(11, Z, 13); (15, X, 17); (19, V, 21); (23, T, 25); (27, R, 29); _____

(1) (28, Q, 30)
(2) (31, P, 33)
(3) (28, S, 30)
(4) (31, S, 33)

Options:
1.  
2.  
3.  
4.  

Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

IJLO, GHJM, EFHK, CDFI, ABDG, _______

(1) ZXCT
(2) YZBE
(3) XADK
(4) WBEL

Options:
(b) Data Analysis

Note: The results of a study conducted on the Academic background of students (in thousands) who took admission into MBA/MCA in the Six Years 2013 to 2018 in a University is given in the following table. Based on this data, answer the questions 46, 47 and 48.

<table>
<thead>
<tr>
<th>Year/Faculty</th>
<th>Arts</th>
<th>Commerce</th>
<th>Science</th>
<th>Engineering</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>4</td>
<td>8</td>
<td>16</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>2014</td>
<td>8</td>
<td>12</td>
<td>20</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>2015</td>
<td>8</td>
<td>12</td>
<td>25</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>2016</td>
<td>10</td>
<td>10</td>
<td>15</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>2017</td>
<td>10</td>
<td>15</td>
<td>14</td>
<td>51</td>
<td>6</td>
</tr>
<tr>
<td>2018</td>
<td>9</td>
<td>7</td>
<td>10</td>
<td>10</td>
<td>8</td>
</tr>
</tbody>
</table>

Sub questions

Question Number : 46  Question Id : 6672694409  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
What is the percentage of the science students who took admission into these programmes in all the years put together?

(1) 25  
(2) 30  
(3) 33 \frac{1}{3}  
(4) 42 \frac{1}{2}  

Options:
(1) 1  
(2) 2  
(3) 3  
(4) 4  

What is the approximate percentage of students from Arts who took admission into the programme in the year 2016 when compared to all the Arts students admitted in all the years put together?

(1) 19.1  
(2) 19.8  
(3) 20.4  
(4) 21.1  

Options:
(1) ✗ 1  
(2) ✗ 2  
(3) ✔ 3
What is the average number of commerce students per year who took admission into this programme?

(1) $10 \frac{1}{3}$

(2) $10 \frac{2}{3}$

(3) 11

(4) $11 \frac{1}{3}$

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 6
Sub-Section Id: 667269445
Question Shuffling Allowed: Yes

Question Id: 6672694412
Question Type: COMPREHENSION
Sub Question Shuffling Allowed: Yes
Group Comprehension Questions: No
Question Numbers: (49 to 53)
The following Pie Charts show the revenue and expenditure of a public sector undertaking under 5 major heads of account. Based on this data, answer questions 49 to 53.

In the Pie chart for the Revenue, what is the difference between the sectorial angle of odd and even heads of accounts?

(1) 242°
(2) 252°
(3) 232°
(4) 212°
If the total expenditure is Rs.5000 crores, what is the difference between the expenditure (in Rs. crores) under heads D and E put together and that of the rest the heads together?

(1) 2500
(2) 2200
(3) 2000
(4) 1850
If the Revenue under head II is Rs. 25 crores, then the total revenue under the heads of I and IV together? (in crores of Rs)

(1) 245  
(2) 235  
(3) 215  
(4) 225

Options:
1. ** 1  
2. ** 2  
3. ** 3  
4. ✓ 4

In a particular year the expenditure under the head E is Rs. 1240 Crores. Then in the same year, the difference in the expenditure under the heads B and D (in Rs. crores) is

(1) 140  
(2) 170  
(3) 130  
(4) 120

Options:
1. ✓ 1  
2. ** 2  
3. ** 3  
4. ** 4
What is the percentage of the expenditure under the head A, when compared to the expenditure on the rest of the heads?

What is the percentage of the expenditure under the head A, when compared to the expenditure on the rest of the heads?

(1) 10
(2) 11
(3) $11\frac{1}{9}
(4) 11\frac{3}{9}

Options:
1. ❌ 1
2. ❌ 2
3. ✓ 3
4. ❌ 4

Sub-Section Number: 7
Sub-Section Id: 667269446
Question Shuffling Allowed: Yes
In the following venn diagram square represents Females, triangle represents IITians and rectangle represents MBAs.

Sub questions

Question Number : 54  Question Id : 6672694419  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

What is the number of female corporate managers who did MBA?

MBA నిర్ణయించే మిని ప్రతియేది ఉమ్మడి మాత్రము ఎక్కడ ఉంది?

(1)  5
(2)  23
(3)  20
(4)  15

Options :
1.  ✔  1
2.  ✔  2
3.  ✔  3
4.  ✔  4

Question Number : 55  Question Id : 6672694420  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
How many male IIITians are there?

(1) 80
(2) 60
(3) 75
(4) 35

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Coding and Decoding Problems

Note: The English Alphabet, a code is designed by the following rules:

1. The vowels are rotated cyclically by moving each vowel to its right by one place.
2. Each consonant from B to M is moved to the right by one place cyclically.
3. Each consonant from N to Z is moved to left by one place cyclically.
4. The reverse process is followed for decoding.

Based on this code pattern answer questions from 56 to 60.
What is the code for ‘YADADRI’?

‘YADADRI’ යනු තුළ ලැබේ?

(1) XEFEFQO
(2) ZEEFFPU
(3) XEFGFRI
(4) ZFFHFSA

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

What is the code for ‘EMAIL’?

‘EMAIL’ යනු තුළ ලැබේ?

(1) EBIOA
(2) IBEOM
(3) IAEBK
(4) EABIL

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
What is the code for the word ‘BUCKET’?

‘BUCKET’ ఒక వంటిన కాడు?

(1) AABJIS
(2) CADLIS
(3) CABLIU
(4) DABTOU

Question Number : 59  Question Id : 6672694425  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

Which word is coded as ‘FUBEOZ’?

‘FUBEOZ’ ఒక వంటిన కాడు?

(1) REMAIN
(2) STRAIN
(3) COMEDY
(4) DOMAIN

Options :
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 60  Question Id : 6672694426  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
Which one of the following is coded as ‘NUMODX’?

(1) POLITY  
(2) POLICY  
(3) POLICE  
(4) MALICE

Note: A word or a group of letters to be coded or decoded based on the certain codes. Using the information, answer the questions 61 to 65.

Sub questions

Question Number : 61  Question Id : 6672694428  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

In a certain code, if the word CRIME is coded as ‘APGKC’, then the code for ‘QUICK’ is.

(1) OTHBJ  
(2) PUICK  
(3) PRICE  
(4) OSGAI
Question Number: 62  Question Id: 6672694429  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes
Single Line Question Option: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0

In a certain code, if ‘BEAT’ is coded as ‘ADZS’ then the code for ‘SONAR’ is

(1) RLMYP
(2) RNMZQ
(3) TPOBS
(4) TOBPS

Question Number: 63  Question Id: 6672694430  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes
Single Line Question Option: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0

If ‘CARTOON’ is coded as ‘NOOTRAC’ then which of the following is coded as ‘DETIMIL’?

CARTOON NOOTRAC կ రంధన కరంత సంవత్సర దీనిపై DETIMIL

(1) TENDERS
(2) LISTENS
(3) TENDRIL
(4) LIMITED
If ‘CUPBOARD’ is coded as ‘UCBPAODR’ then the code for ‘ELEVATER’ is

CUPBOARD → UCBPAODR → LEVETARE → ELEVATER

(1) LAVERATE  
(2) LEVETARE  
(3) LAVETEAR  
(4) LEAVETRA

If ‘WATER’ is coded as ‘XAUES’ then the code for ‘MOBILE’ is

WATER → XAUES → LAOIKE → MOBILE

(1) LOAIKE  
(2) NOCIME  
(3) NPCJNF  
(4) LPCINE

Options :
1. ✔ 1  
2. ✔ 2  
3. ✔ 3  
4. ✔ 4
(d) **Date, Time & Arrangement Problems**

If today is Sunday then what day it was in the week 124 days ago?

1. Monday
2. Tuesday
3. Thursday
4. Friday

Options:
1. ✗ 2
2. ✗ 3
3. ✗ 4

Question Number: 67  Question Id: 6672694434  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Date, Time & Arrangement Problems

At 5:15 p.m the angle between the hours hand and the minute’s hand of wall clock (in degrees) is

(5:15 సమయంలో ఎందరూ అంటే ఎందరు మంది జూన నుండి కూడా ఉంటే ఎందరు స్థాయిప్రక్రియలు ఉంటే ఎందరు)

(1) 59\(\frac{1}{2}\)

(2) 64\(\frac{1}{2}\)

(3) 67\(\frac{1}{2}\)

(4) 72\(\frac{1}{2}\)
Date, Time & Arrangement Problems

A Clock gains 10 minutes in 24 hours. If the clock is set at the right time at 8:00 a.m on Sunday, the actual time when the clock shows 1:00 p.m on Monday?

(1) 1:05 p.m  
(2) 12:50 p.m  
(3) 12:45 p.m  
(4) 12:48 p.m

Options :
1. ✗ 1  
2. ✗ 2  
3. ✗ 3  
4. ✔ 4

Question Number : 69  Question Id : 6672694436  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
**Date, Time & Arrangement Problems**

In a family $B$ is the father of $A$; $C$ is the wife of $B$; $D$ is the mother of $C$ and $E$ is the husband of $D$. Then $A$ is related to $E$ as:

$D$ మాంత్రణలేదు $E$ అంటే $E$ కు మాంత్రణలేదు.

1. Father
2. Mother
3. Son
4. Grandson

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
A family has a man, his wife, their four sons and their wives. The first son has three sons and one daughter, the second son has two sons and three daughters, the third and fourth sons have three daughters each. The total number of female members in the whole family is.

(1) 12  
(2) 15  
(3) 11  
(4) 9

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Correct Marks: 1 Wrong Marks: 0
(d) Date, Time & Arrangement Problems
సమయ, రాయలు, పరిస్థితి ప్రశ్నలు

A superfast express travelling at 100 kmph takes 2 hours more than another train travelling at 120 kmph to cover the distance between the same two stations (in kms). Then the distance between the stations (in kms) is.

గొప్ప 100 కి.మీ.ప్రాంతంలో తరచుగా 2 ఎందుకంటే అంతర్నాటికం వదలించు ప్రతి రాత్రి 120 కి.మీ.ప్రాంతంలో తరచుగా దురితం ఉండుతుంది. అంటే వేడి రాత్రిని సంఖ్యత్తుని కుంభించడం సాధనం వేయించాలి. అంటే కొనసాగించినందు ఎంతా దూరం (కి.మీ.)

(1) 1200
(2) 800
(3) 1000
(4) 600

Options:
1. ✅ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 72  Question Id: 6672694439  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
(d) Date, Time & Arrangement Problems

A, B, C, D, E, F and G are sitting around a circular table and facing the centre. G is second to the left of C. C is to the immediate left of F. A is third to the left of E. B is between D and E. Which of the following is true?

A. B, C, D, E, F, G
B. C is fourth to the left of B
C. A is the immediate right of C
D. D is second to the left of E
E. B is second to the right of G

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options:

1. 1
2. 2
3. 3
4. 4
(d) Date, Time & Arrangement Problems

If \( * \) is defined by \( a * b = a^3 + b^3 - 3ab \) for \( a, b \in \mathbb{R} \),
then \( \frac{(1*2)*(1*2)}{(1*1)*(1*1)} = \)

\( a, b \in \mathbb{R} \), \( a * b = a^3 + b^3 - 3ab \) రాణిపడించండి.

\( \frac{(1*2)*(1*2)}{(1*1)*(1*1)} = \)

(1) \( \frac{27}{5} \)
(2) \( \frac{16}{5} \)
(3) \( -\frac{27}{5} \)
(4) \( -\frac{16}{5} \)

Options:
1. □ 1
2. □ 2
3. ✔ 3
4. □ 4

Correct Marks: 1 Wrong Marks: 0
(d) Date, Time & Arrangement Problems

If \( x \downarrow y = (x + y) + (x - y)^2 \) and \( x \uparrow y = (x + y)^3 - (x - y)^3 \) then the value

\[
\frac{(0 \downarrow 1) \uparrow (0 \downarrow 1)}{(1 \uparrow 2) \downarrow (1 \uparrow 2)} =
\]

\[
x \downarrow y = (x + y) + (x - y)^2 \quad \text{and} \quad x \uparrow y = (x + y)^3 - (x - y)^3 \quad \text{are also,}
\]

\[
\frac{(0 \downarrow 1) \uparrow (0 \downarrow 1)}{(1 \uparrow 2) \downarrow (1 \uparrow 2)} =
\]

(1) \( \frac{8}{7} \)
(2) \( \frac{15}{7} \)
(3) \( \frac{14}{9} \)
(4) \( \frac{13}{8} \)

Options:
1. 1
2. 2
3. 3
4. 4

Question Number : 75  Question Id : 6672694442  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(d) **Date, Time & Arrangement Problems**

For \( ab \neq 0 \), if \( \ast \) is defined by \( a \ast b = \frac{a^2 + b^2}{ab} \) then

\[
\frac{(1\ast2)\ast(2\ast1)}{(1\ast3)+(3\ast1)}
\]

\[
ab \neq 0 \implies a \ast b = \frac{a^2 + b^2}{ab}
\]

\[
\frac{(1\ast2)\ast(2\ast1)}{(1\ast3)+(3\ast1)}
\]

\[
(1) \quad \frac{1}{5}
\]

\[
(2) \quad \frac{3}{10}
\]

\[
(3) \quad \frac{5}{4}
\]

\[
(4) \quad \frac{20}{3}
\]

Options:

1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4
If \( a=2^x, \ b=4^y, \ c=8^z \) and \( a^{yz} \cdot b^{zx} \cdot c^{xy} = 4^6 \), then \( xyz = \) ________

\[
a = 2^x, \ b = 4^y, \ c = 8^z \quad \text{所以} \quad a^{yz} \cdot b^{zx} \cdot c^{xy} = 4^6 \quad \text{解得} \quad xyz = \text{________}
\]

(1)  3  
(2)  1  
(3)  4  
(4)  2

Options:
1.  ✗ 1  
2.  ✗ 2  
3.  ✗ 3  
4.  ✓ 4

\[x^{x\sqrt{x}} = (x\sqrt{x})^6 \quad \Rightarrow x = \]

(1)  63  
(2)  64  
(3)  81  
(4)  84

Options:
1.  ✗ 1  
2.  ✗ 2  
3.  ✓ 3
(i) Arithmetical Ability

\[ A + B + C = 427, \quad 3A = 4B = 7C \Rightarrow A = \]

(1) 147  
(2) 196  
(3) 84   
(4) 61

Options:
1. 1  
2. 2  
3. 3  
4. 4

Question Number : 79  Question Id : 6672694446  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(i) Arithmetical Ability

There are 50 paise and 25 paise coins in a bag whose value is Rs.45. If the total number of coins is 100, then the number of 50 paise coins is

\[ \text{50 paise coins} = 45 \quad \text{and} \quad \text{25 paise coins} = 25 \quad \text{so that} \quad 50 + 25 \quad \text{should} \quad \text{equal} \quad 100 \]

\[ \text{50 paise coins} = 40 \]

(1) 40  
(2) 60  
(3) 80   
(4) 85
Question Number : 80  Question Id : 6672694447  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(i) Arithmetical Ability

\[ \frac{2}{\sqrt{10 + 2\sqrt{21}}} - \frac{1}{\sqrt{12 + 2\sqrt{35}}} - \frac{1}{\sqrt{8 + 2\sqrt{15}}} = \]

(1) \( \sqrt{7} \)
(2) \( \sqrt{5} \)
(3) \( \sqrt{3} \)
(4) 0

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 81  Question Id : 6672694448  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) Arithmetical Ability

\[ x = \frac{2\sqrt{2} + \sqrt{7}}{2\sqrt{2} - \sqrt{7}} \Rightarrow x - \frac{1}{x} = \]

(1) \( \sqrt{14} \)
(2) \( 2 + \sqrt{14} \)
(3) \( 4\sqrt{14} \)
(4) \( 8\sqrt{14} \)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 82  Question Id : 6672694449  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(i) Arithmetical Ability

\[ x = \frac{2\sqrt{2} + \sqrt{7}}{2\sqrt{2} - \sqrt{7}} \Rightarrow x - \frac{1}{x} = \]

What is the remainder when \( 2^{45} \) is divided by 5 ?

\( 2^{45} \) ఎంచుకోవడానికి రెండు రెండు సంఖ్యలు

(1) 1
(2) 2
(3) 3
(4) 4

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 83  Question Id : 6672694450  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) **Arithmetical Ability**

What is the total number of positive divisors of 12600?

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<table>
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<tr>
<td>1</td>
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<td>3</td>
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<td>4</td>
<td>76</td>
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</tbody>
</table>

Options:
1. **1**
2. ✔ 2
3. **3**
4. ✔ 4

---

(i) **Arithmetical Ability**

The G.C.D of two numbers is 42 and their L.C.M is 1260. If one of the number is 210, the other number is

<p>| | |</p>
<table>
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<td>2</td>
<td>250</td>
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<tr>
<td>3</td>
<td>252</td>
</tr>
<tr>
<td>4</td>
<td>258</td>
</tr>
</tbody>
</table>

Options:
1. **1**
2. ✔ 2
3. ✔ 3
4. **4**
(i) Arithmetical Ability

If the G.C.D of 28 and 49 is expressed as $28x + 49y$, then a pair $(x, y) =$

28. 49  విభాగం  28x + 49y గా లభించిన సమాకలిన $\left( x, y \right) =$

(1) $(-1, 1)$
(2) $(1, -1)$
(3) $(-1, 2)$
(4) $(2, -1)$

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
(i) Arithmetical Ability

What is the value of the rational number which is the sum of the recurring decimals: \(0.\overline{6} + 0.\overline{7} + 0.\overline{8}\)?

\(0.\overline{6} + 0.\overline{7} + 0.\overline{8}\) వంటి సంఖ్య భాగంగా మిచ్చే రక్షిత శాంతితృవంతమొలగతో వంటి సంఖ్య వీలు ఎక్కడ ఉండదు?

(1) \(2\frac{1}{9}\)

(2) \(2\frac{1}{3}\)

(3) \(3\frac{1}{9}\)

(4) \(3\frac{1}{3}\)

Options:
1. 1
2. 2
3. 3
4. 4

Question Number: 87  Question Id: 6672694454  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0

(i) Arithmetical Ability

\[8\left[24 - \left\{25 - (17 - 4 + 7) + 5\right\} + 2\right] = \]

(1) 0

(2) 12

(3) 16

(4) 20

Options:
1. 1
(1) Arithmetical Ability

అనిధిరిధి చిక్కను

The ascending order of the following numbers is

అంకెల ఆధిపత్ర ప్రతిపాదన తెలుగు

\[ a = 4\sqrt{2}; \quad b = 2\sqrt{5}; \quad c = 3\sqrt{2}; \quad d = 2\sqrt{3} \]

(1) \( c, b, d, a \)

(2) \( d, b, c, a \)

(3) \( c, d, b, a \)

(4) \( d, c, b, a \)

Options:

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
(i) Arithmetical Ability

గణిత కృతి ధారణలు

Which of the following statements is true?

అనేక ప్రామాణిక విధానాలు ఉండాలి?

1) \( 6\sqrt{5} > 4\sqrt{11} > 5\sqrt{6} \)
2) \( 6\sqrt{5} > 5\sqrt{6} > 4\sqrt{11} \)
3) \( 4\sqrt{11} > 6\sqrt{5} > 5\sqrt{6} \)
4) \( 4\sqrt{11} > 5\sqrt{6} > 6\sqrt{5} \)

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 90  Question Id : 6672694457  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(i) Arithmetical Ability

గణిత కృతి ధారణలు

Due to reduction of \( \frac{1}{4} \% \) in the price of onion a person was able to buy 1 kg more for Rs. 120. The original price of onion per kg in Rs. is

కాగార ఎత్తు యొక్క దశాను యొక్క సుధ్దం 120 మీ రూ.లో కోసం 1 కీల్ కంప్యూట్రీలు పొందడానికి సాధ్యమయ్యాయి.

తొపట్టు ఎత్తు రూ. యొక్క సుధారం యొక్క సుధ్యామయ్యాయి.

(1) 10
(2) 9
(3) 8
(4) 7

Options :
(i) Arithmetical Ability

5% of income of A is equal to 15% income of B and 10% income of B is equal to 20% income of C. If the income of C is ₹ 20,000, then the total income of A, B and C (in thousands if Rs.) is

\[ \text{A's income: } 5\% \text{ of } B \text{ for } 15\% \text{ of } C \text{, B's income: } 10\% \text{ of } C \text{, and C's income: } 20\% \text{ of } C. \text{ C's income is } 20,000 \text{ or in Rs., A, B, C, are in thousands.} \]

1) 60
2) 120
3) 140
4) 180

Options:
1. 1
2. 2
3. 3
4. 4
(i) Arithmetical Ability

The cost price of 20 books is equal to the sale price of 16 books. What is the outcome of the transaction?

20 గుణాంకంలో పుస్తక 16 గుణాంకంలో వితాయనం చేసి వితాయనం కనబడుతున్న విద్యార్థితో వితాయనం కంటే వినిమయం ఉంది?

(1) 15% loss
15% కష్ఠం

(2) 25% profit
25% పట్టు

(3) 15% profit
15% పట్టు

(4) 25% loss
25% కష్ఠం
(i) **Arithmetical Ability**

An article is sold for a profit of 20%. Had it been sold for a profit of 25% it would have fetched ₹ 50 more. The cost price of the article (in ₹) is

(1) 750
(2) 800
(3) 900
(4) 1000

**Options:**
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

**Question Number : 94  Question Id : 6672694461  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0**
(i) **Arithmetical Ability**

**ಅರಿಧೇಕ್ಳದ ಶಾಂತಿಯಿಸ್ತೇ**

A and B entered into a business with capital ₹80,000 and ₹1,20,000 respectively. After 4 months each invested ₹20,000 more. The difference in the share of their profits in the year end profit is ₹68,000 is (in Rs) is

**A, B ಡೀ ನಡುಗೆ ಮಾಡಿದ 80,000, 1,20,000 ಸಂಕೇತಗಳೆಂದು ಇರುವಂತೆ ಹೆಚ್ಚಿಸುತ್ತಿದ್ದರು. 4 ಮಂದಿಯ ಕಡೆ ಮೌಲ್ಯ ಹೆಚ್ಚಿಸಿದ 20,000 ಶುಲ್ಕು ಹೊಸ ವಿನಿಮಯವಿರುತ್ತದೆ. ಹೊಸ ವಿನಿಮಯದ ಕುಂಠಿಸಿದ 68,000 ರೂಣಿಗಳು ಮುಂದಿನ ಹೆಳಿಕೆ (ರೂಣಿಗಳು):**

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<tbody>
<tr>
<td>1</td>
<td>8,000</td>
</tr>
<tr>
<td>2</td>
<td>10,000</td>
</tr>
<tr>
<td>3</td>
<td>12,000</td>
</tr>
<tr>
<td>4</td>
<td>16,000</td>
</tr>
</tbody>
</table>

Options:
1. * 1
2. * 2
3. ✔ 3
4. * 4
(i) **Arithmetical Ability**

X and Y invested in a business with their capitals respectively in the ratio of 3:2. After deducting 10% of the total profit for taxes if Y’s share of profit is Rs. 6,480, then the total profit (in thousands of Rs.) is

\[ \text{Total Profit} = \frac{\text{Y's Profit}}{0.9} \]

\[ \text{Total Profit} = \frac{6480}{0.9} = 7200 \]

\[ \text{Total Profit} = 7200 \text{ Rs.} \]

(1) 18  
(2) 36  
(3) 42  
(4) 56  

Options:
1. ✔ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4  

Question Number : 96  Question Id : 6672694463  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) Arithmetical Ability

Two pipes $A$ and $B$ can fill a huge tank in 6 hours and 8 hours respectively. If both the pipes are opened simultaneously and the $B$ is turned off after $1\frac{1}{2}$ hours then the time required for the tank to be full (in hours) is

$A, B$ దుస్తులు ఒక మధ్యకొన్ని మఠం నిలబడే 6 రోజులు మరియు 8 రోజులు నిలబడేవారు. చాలాసమతానికి చాలాసమానికి మరియు వారి మఠం నిలబడింది. అంటే $1\frac{1}{2}$ రోజులు వరకు $B$ దుస్తులు నిలబడాం అంటే మఠం నిలబడింది (రోజులు)

1. 6
2. $5\frac{5}{8}$
3. 5
4. $4\frac{7}{8}$

Options:
1. **1**
2. **2**
3. **3**
4. **4**
(i) Arithmetical Ability

ఎంమూ క్రిత దానాయ్కు

If a pump takes 6 hours to fill \( \frac{3}{7} \) th of a huge tank then total time required to completely fill the tank in hours is

(1) 12
(2) 13
(3) 14
(4) 15

Options :
1. ✔
2. ❌
3. ✔
4. ❌

A person \( P \) is travelling at 72 kmph while \( Q \) is travelling at 25 meters per second. What is the difference in their speeds in meters per second?

\( P \) యే ద్రవ్యం 72 కి.మి. ఎంధ్రవంటి వేగం ఉంది. \( Q \) యే వేగం 25 మీటర్స్ ఎంపిట్టాడు. వేగాలు మిశ్రమం వచ్చాం?

(1) \( \frac{1}{2} \)
(2) 2
(3) 3
(4) 5
A person takes 6 hours to reach a place. If he reduces his speed by \( \frac{1}{3} \) then he travels 10 km less in that time. His speed in kmph is

1) 6
2) \( \frac{1}{2} \)
3) 5
4) \( \frac{4}{10} \)
Of the two workers $A$ and $B$, the worker $A$ works twice as fast as $B$. If $B$ works alone the work could be completed in 12 days. If both $A$ and $B$ work together the number of days in which the work can be completed is

\[ \frac{\frac{1}{2} + \frac{1}{12}}{\frac{1}{2} + \frac{1}{12}} = \frac{7}{13} \times 12 = \frac{84}{13} \]

\[ \frac{7}{13} \approx 5.3846 \text{ days} \]

So, the correct answer is (3) $5 \frac{1}{2}$. 

Options:
1. 4
2. 5
3. $5 \frac{1}{2}$
4. 6
(i) Arithmetical Ability

_three workers can individually complete a work in 7, 14 and 28 days respectively. If all the three work together the number of days needed to complete the same work is

(1) 4
(2) 5
(3) 5\frac{1}{2}
(4) 6

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Arithmetical Ability

The dimensions of a rectangular field are 60 meters and 80 meters. Four cows are tied at the four corners of the field with ropes of lengths 10, 12, 14 and 16 meters respectively. The area of the grass that cows could eat in sq. meters is

10, 12, 14, 16 మీటర్ల రేఖల నాలుగు కోనులు పై కొలూచబడిన కునుగిత తొడగల పొడులు. కొలువు పొడి నిలిచిన ప్రతికోను నిశాంతమైన తొడగల పొడుల డానిలో నిలిచిన పొడి ఎంతమిటటే పొడి ఎంతమిటటే?

(1) $168\pi$
(2) $172\pi$
(3) $174\pi$
(4) $178\pi$

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4
(i) Arithmetical Ability

The length of a room is 5.5 meters and its width is 3.75 meters. Find the cost (in ₹) of paving the floor at the rate of ₹ 800 per square meters.

(1) 15,000
(2) 15,500
(3) 15,600
(4) 16,500

(i) Arithmetical Ability

What is the volume of a cube (in cu.cm) whose total surface area is 384 sq. cms?

(1) 512
(2) 729
(3) 1000
(4) 1331
(i) Arithmetical Ability

A cylinder and a cone have the same height and the same radius of the base. The ratio of the volumes of the cone and cylinder is

(1) 1:3  
(2) 2:3  
(3) 3:4  
(4) 4:3
(i) Arithmetical Ability

The area of square field is 8450 m². The time taken by a person to cross the field diagonally with a speed of 3 kmph. (in minutes) is

\[ \frac{11}{5} \]

(1) \[ \frac{11}{5} \]

(2) \[ \frac{13}{5} \]

(3) 3

(4) \[ \frac{17}{5} \]

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

(i) Arithmetical Ability

The perimeter of a semi-circle is 396 cm. Then its diameter (in cm) is:

(1) 36

(2) 72

(3) 77

(4) 154

Options:
(i) **Arithmetical Ability**

If the radius of a circle is increased by 10%, then the percent increase in its area is

(1) 19%
(2) 22%
(3) 20%
(4) 21%

Options:

1. 1
2. 2
3. 3
4. ✔️ 4
Arithmetical Ability

(i)

\[ \{ x \in \mathbb{R} \mid |x - 3| < 2 \land |x - 1| < 5 \} = \]

1) \((-4, 6)\)
2) \((1, 6)\)
3) \((1, 5)\)
4) \((-4, 5)\)

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

If 993 \equiv r (\text{mod} 23) \text{ and } 0 \leq r \leq 22, \text{ then } r =

0 \leq r \leq 22 \text{  ఉంచా,  } 993 \equiv r (\text{mod} 23) \text{ అనిముందు  } r =

1) \(3\)
2) \(4\)
3) \(13\)
4) \(14\)

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

If \( p \) and \( q \) are statements, then \( \sim p \iff p \land q \) is true whenever

\( p, q \) are true, \( \sim p \iff p \land q \) is valid.

(1) \( q \) is true
   \( q \) ట్రీయు ఉంది

(2) \( p \) is true, \( q \) is false
   \( p \) ట్రీయు, \( q \) ఫాల్స్ ఉంది

(3) \( p \) is true
   \( p \) ట్రీయు

(4) \( p \) is false, \( q \) is true
   \( p \) ఫాల్స్, \( q \) ట్రీయు

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

For any two statements \( p, q \) the statement \( (p \Rightarrow q) \lor \left(\neg \left( \neg p \right) \iff q \right) \) is false only when

\[ (p \Rightarrow q) \lor \left(\neg \left( \neg p \right) \iff q \right) \]

(1) \( p \) is false, \( q \) is false

(2) \( p \) is true, \( q \) is false

(3) \( p \) is true, \( q \) is true

(4) \( p \) is false, \( q \) is true

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
(ii)  Algebraic and Geometrical Ability

If \( A, B, C \) are subsets of a set \( X \) and \( A^1 = X - A \), then \( \left( A \cup \left( B^1 \cap C^1 \right) \right) = \)
\( A, B, C \) యొక్క \( X \) నుండి కలిగిన అన్నీ \( A^1 = X - A \) తో అనేకు \( \left( A \cup \left( B^1 \cap C^1 \right) \right) = \)

1. \( \left( A^1 \cup (B \cup C) \right) \)
2. \( (A \cap \left( B^1 \cup C^1 \right) \)
3. \( (A \cup \left( B^1 \cap C^1 \right) \)
4. \( (A \cap (B \cup C)) \)

Options :
1. ✓ 1
2. ✓ 2
3. ✓ 3
4. ✓ 4

(ii)  Algebraic and Geometrical Ability

A relation \( R \) defined on a non-empty set \( A \) is called anti-symmetric if

\( x \) నుండి \( y \) లను ఒక సంఖ్య ఊంచి నిష్పత్తి కలిగిన \( R \) తో అనేకు సంఖ్య ఊంచి నిష్పత్తి ఉంటుంది ఎంటి?
(ii) Algebraic and Geometrical Ability

If \( A \) and \( B \) are two sets such that \( n(A) = 4 \) and \( n(B) = 5 \), then the number of non-constant functions from \( A \) into \( B \) is

\[
A, B \text{ యింది అనుసంధానం, } n(A) = 4, n(B) = 5 \text{ అనుమతించాయి, } A \text{ నుండి } B \text{ వి పెద్ద ప్రఖ్యత
}

Options:

1. 625
2. 1024
3. 1020
4. 620
Algebraic and Geometrical Ability

Two lines $L_1$ and $L_2$ make intercepts $a$, $-b$ and $b$, $-a$ respectively on the $x$ and $y$ axes. Then angle between $L_1$ and $L_2$ is

(1) $\tan^{-1}\left(\frac{a^2 - b^2}{ab}\right)$

(2) $\tan^{-1}\left(\frac{a^2 - b^2}{2}\right)$

(3) $\tan^{-1}\left(\frac{a^2 - b^2}{2ab}\right)$

(4) $\frac{\pi}{2}$

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

Equation of perpendicular bisector of the line segment joining \((13, -2)\) and \((-5, 10)\) is

\((13, -2), (-5, 10)\) యొక్క వేర్ విభజన వంటి రేఖాంశాల విభజన రేఖ అయితే

\[
\begin{align*}
(1) & \quad 2x + 3y = 20 \\
(2) & \quad 2x - 3y + 4 = 0 \\
(3) & \quad 3x - 2y = 4 \\
(4) & \quad 3x + 2y = 20 \\
\end{align*}
\]

Options:

1. * 1
2. * 2
3. ✓ 3
4. * 4

Question Number : 118  Question Id : 6672694485  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

\[\tan 480^\circ = \]

\[
\begin{align*}
(1) & \quad -\sqrt{3} \\
(2) & \quad \sqrt{3} \\
(3) & \quad -\frac{1}{\sqrt{3}} \\
(4) & \quad \sqrt{3} \\
\end{align*}
\]

Options:

1. ✓ 1
2. * 2
3. * 3
Question Number : 119  Question Id : 6672694486  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  
Single Line Question Option : No  Option Orientation : Vertical  
Correct Marks : 1  Wrong Marks : 0  
Options :  
1.  
2.  
3.  
4.  

(ii) Algebraic and Geometrical Ability  

\[ \cos \frac{2\pi}{6} + \sin \frac{5\pi}{6} = \]  

(1) 0  
(2) 1  
(3) -1  
(4) 2  

Options :  
1.  
2.  
3.  
4.  

Question Number : 120  Question Id : 6672694487  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  
Single Line Question Option : No  Option Orientation : Vertical  
Correct Marks : 1  Wrong Marks : 0  
Options :  
1.  
2.  
3.  
4.  

(ii) Algebraic and Geometrical Ability  

\[ 6 \cos \theta - 7 \sin \theta = 0 \Rightarrow (7 \cos 2\theta + 6 \sin 2\theta)^2 = \]  

(1) 1  
(2) 4  
(3) 49  
(4) 2  

Options :  
1.  
2.  
3.  
4.  

(ii) Algebraic and Geometrical Ability

Two boys are on opposite sides of a tower of 80 meters height. They measures the angles of elevation of the top of tower as 45° and 60° respectively. The distance between two boys (in meters) is

\[ \frac{80}{3} \left( 3 + \sqrt{3} \right) \]

\[ \frac{80}{\sqrt{3}} \]

\[ \frac{80}{3} \left( \sqrt{3} - 1 \right) \]

\[ \frac{80}{3} \left( 3 - \sqrt{3} \right) \]

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

If \(3x^2 - 5x - 8 < 0\), then \(x\) lies in the interval

\[3x^2 - 5x - 8 < 0\]  

\(\Rightarrow x\) lies in the interval 

\[(1) \quad \left(-1, \frac{8}{3}\right)\]

\[(2) \quad \left(-\frac{8}{3}, -1\right)\]

\[(3) \quad (-\infty, -1)\]

\[(4) \quad \left(\frac{8}{3}, \infty\right)\]
(ii) **Algebraic and Geometrical Ability**

The polynomial in \( x \) of least degree with the roots \( \frac{3}{2}, \frac{2}{3}, \pm \sqrt{3} \) is

\[
\frac{3}{2}, \frac{2}{3}, \pm \sqrt{3} \text{ के मूलों के साथ } x \text{ की अन्धकारी फलन का न्यूनतम \( x \) का पौयनोल}\n\]

(1) \((3x - 2) (2x - 3) (x^2 - 3)\)

(2) \((3x + 2) (2x + 3) (x^2 - 3)\)

(3) \((3x - 2) (2x +3) (x^2 - 3)\)

(4) \((3x + 2) (2x -3) (x^2 - 3)\)

Options :
1. ✅  1
2. ✗  2
3. ✗  3
4. ✗  4

Question Number : 124  Question Id : 6672694491  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(ii) **Algebraic and Geometrical Ability**

\[
\left( x^2 - 3x + 2 \right) \left( x^3 - 6x^2 + Ax + B \right) \Rightarrow A^2 + B^2 = \]

(1) 156

(2) 157

(3) 158

(4) 159

Options :
1. ✗  1
2. ✅  2
3. ✗  3
4. ✗  4
(ii) Algebraic and Geometrical Ability

\[ x - 3 \text{ divides } x^4 - 2x^3 + 3x^2 - mx + 3, \text{ then } m = \]
\[ x^4 - 2x^3 + 3x^2 - mx + 3, \text{ then } x - 3 \text{ divides } m = \]

\begin{align*}
(1) & \quad 15 \\
(2) & \quad 16 \\
(3) & \quad 17 \\
(4) & \quad 19 \\
\end{align*}

Options :
1. 1
2. 2
3. 3
4. 4

(ii) Algebraic and Geometrical Ability

\[ \frac{4}{x-3} + \frac{6}{y-4} = 5, \quad \frac{5}{x-3} - \frac{3}{y-4} = 1 \implies x + y = \]
\[ \frac{4}{x-3} + \frac{6}{y-4} = 5, \quad \frac{5}{x-3} - \frac{3}{y-4} = 1 \implies x + y = \]

\begin{align*}
(1) & \quad 8 \\
(2) & \quad 9 \\
(3) & \quad 10 \\
(4) & \quad 11 \\
\end{align*}

Options :
1. 1
2. 2
3. 3
(ii) Algebraic and Geometrical Ability

If \( x, y(x < y) \) are primes satisfying \( x + y = 30 \), then the number of such pairs \( (x, y) \) is

\[
x, y(x < y) \text{ are primes satisfying } x + y = 30
\]

Options:
1. 1
2. 2
3. 3
4. 4
Algebraic and Geometrical Ability

If seventh and eleventh terms of an arithmetic progression are 31 and 47 respectively, then fifteenth term is

(1) 67
(2) 63
(3) 59
(4) 55

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
(ii) **Algebraic and Geometrical Ability**

If the 6th term and 13th term of a geometric progression are 24 and \( \frac{3}{16} \) respectively, then the 25th term is

\[ \frac{3}{2^{18}} \]

\[ \frac{3}{2^{25}} \]

\[ \frac{3}{2^{24}} \]

\[ \frac{3}{2^{16}} \]

Options:
1. \( \frac{3}{2^{18}} \)
2. \( \frac{3}{2^{25}} \)
3. \( \frac{3}{2^{24}} \)
4. \( \frac{3}{2^{16}} \)

Question Number : 130  Question Id : 6672694497  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
(ii) Algebraic and Geometrical Ability

The term independent of \( x \) in the expression of

\[
\left( 2x^2 + \frac{1}{x^2} \right)^8
\]

is

(1) 3rd term

(2) 7th term

(3) 5th term

(4) 4th term

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 131  Question Id : 6672694498  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(ii) Algebraic and Geometrical Ability

\[
(1 + x + x^2)^n = a_0 + a_1x + a_2x^2 + ... + a_{2n}x^{2n}
\Rightarrow a_1 + a_3 + ... + a_{2n-1} = 
\]

(1) \( \frac{3^n - 1}{2} \)
(2) \( \frac{3^n + 1}{2} \)
(3) \( 3^n \)
(4) \( 3^n - 1 \)

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 132  Question Id : 6672694499  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

\[
A = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} \Rightarrow A^{2019} = 
\]

(1) \( 2^{2020} A \)
(2) \( 2^{2019} A \)
(3) \( 2^{2018} A \)
(4) \( 2^{2017} A \)
(ii) Algebraic and Geometrical Ability

If $A$ and $B$ are $3 \times 3$ matrices, such that the sum of elements along principal diagonal of $A$ is 3 and the sum of elements along principal diagonal of $B$ is 4, then the sum of principal diagonal elements of $3A + 5B = $

If $A, B \in 3 \times 3$ matrices, $A$ మేట్రిక్ సమాచారల మూల రేఖల ఎత్తు 3, $B$ మేట్రిక్ సమాచారల మూల రేఖల ఎత్తు 4 అయిన, $3A + 5B$ రేఖ ఎత్తు మూల రేఖల ఎత్తు ఎ ఆయా భాగం = 

(1) 7  
(2) 11  
(3) 29  
(4) 25
(ii) Algebraic and Geometrical Ability

\[ \lim_{{x \to 0}} \frac{1 - \cos x}{x^2} = \]

1. 1
2. \(\frac{1}{2}\)
3. \(\frac{1}{4}\)
4. 0

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 135  Question Id: 6672694502  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0

(ii) Algebraic and Geometrical Ability

\[ \lim_{{x \to 1^+}} \frac{x^2 - \sqrt{x}}{\sqrt{x} - 1} = \]

1. 1
2. 2
3. 3
4. 4

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(ii) **Algebraic and Geometrical Ability**

The angles of a triangle are $30^\circ$, $60^\circ$ and $90^\circ$. Then the sides of the triangle are in the ratio $1: \sqrt{3}: 3$.

1. $1: \sqrt{3}: 3$
2. $1: \sqrt{2}: 2$
3. $1: 3: 2$
4. $1: \sqrt{3}: 2$

Question Number : 137  Question Id : 6672694504  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(ii) **Algebraic and Geometrical Ability**

The area of a rhombus is 24 sq. cm and one of its diagonals is 8 cm. Then the length of the other diagonal (in cm) is

1. 6
2. 8
3. 6
4. 5
If two circles have radii 16 cm and 7 cm and the distance between their centers is 4 cm, then the number of common tangents, that can be drawn to the two circles is

(1) 0
(2) 1
(3) 2
(4) 4
(ii) Algebraic and Geometrical Ability

If \( G \) is the centroid of the triangle \( \triangle ABC \) with vertices \( A(-2, 3) \), \( B(-7, 5) \) and \( C(3, -5) \) then the area of \( \triangle GAB \) (in sq. units) is

\[ \text{Area of } \triangle GAB \]
(ii) Algebraic and Geometrical Ability

If \((2, -3), (3, 7)\) and \((-4, 6)\) are the mid points of the sides \(BC, CA\) and \(AB\) respectively of the \(\Delta ABC\), then \(A =\)

\(\Delta ABC\) యొక్క మధ్య పోషన్ల 

\(BC, CA, AB\) యొక్క మధ్య పోషన్ల (2, -3), (3, 7).

\((-4, 6)\) నుండి, \(A =\)

(1) \((9, -2)\)
(2) \((-5, -4)\)
(3) \((-3, 16)\)
(4) \((1, 10)\)

Options :

1. \(*\) 1
2. \(*\) 2
3. \(\checkmark\) 3
4. \(*\) 4

Sub-Section Number: 3
Sub-Section Id: 667269452
Question Shuffling Allowed: Yes

Question Number: 141 Question Id: 6672694508 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
(iii) Statistical Ability

The mean of the squares of the first \( n \) natural numbers is

\[
\left( 1 \right) \quad \frac{1}{6} (2n^2 + 3n + 1)
\]

\[
\left( 2 \right) \quad \frac{1}{3} (2n^2 + 3n + 1)
\]

\[
\left( 3 \right) \quad \frac{1}{6n} (2n^2 + 3n + 1)
\]

\[
\left( 4 \right) \quad \frac{1}{6} (n(n + 1)(2n + 1))
\]

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

The median of the following frequency distribution is

<table>
<thead>
<tr>
<th>( x )</th>
<th>7</th>
<th>5</th>
<th>9</th>
<th>3</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>( f_x )</td>
<td>15</td>
<td>11</td>
<td>18</td>
<td>5</td>
<td>8</td>
<td>3</td>
</tr>
</tbody>
</table>

\[
\text{(1)} \quad 5
\]

\[
\text{(2)} \quad 7
\]

\[
\text{(3)} \quad 9
\]

\[
\text{(4)} \quad 11
\]
(iii) Statistical Ability

సాంఖ్యిక శక্তి

Mode of the following distribution is

<table>
<thead>
<tr>
<th>x</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>f_n</td>
<td>8</td>
<td>19</td>
<td>28</td>
<td>5</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

1) 1
2) 2
3) 3
4) 4
(iii) Statistical Ability

సంఖ్యత్వ శక్తి

If the standard deviation of 5, 7, 9, ..., 151 is $\sigma$, then the standard deviation of 32, 44, 56, ..., 908 is

5, 7, 9, ..., 151 చివరు సంఖ్యలలో $\sigma$ అన్ని, 32, 44, 56, ..., 908 చివరు సంఖ్యలలో

(1) $\ 2\ \sigma$
(2) $\ 4\ \sigma$
(3) $\ 6\ \sigma$
(4) $\ 8\ \sigma$

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Standard deviation of any five consecutive integers is

ఎక్కడ 5 చివరు సంఖ్యల హిరోచిత విభజనం

1) $\ \sqrt{2}$
2) $\ \frac{\sqrt{4}}{\sqrt{5}}$
3) $\ \frac{\sqrt{2}}{\sqrt{5}}$
4) $\ 5\sqrt{2}$

Options:
1. ✓ 1
2. ✗ 2
(iii) Statistical Ability

If the sum of the squares of deviations of ranks of two students in five subjects is 16, then the coefficient of rank correlation is

(1) \( \frac{1}{5} \)
(2) \( \frac{2}{5} \)
(3) \( \frac{3}{5} \)
(4) \( \frac{3}{8} \)

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(iii) Statistical Ability

A fair coin is tossed repeatedly. If tail appears on first four tosses, then the probability of head appearing on fifth toss is

(1) $\frac{1}{6}$

(2) $\frac{1}{5}$

(3) $\frac{1}{3}$

(4) $\frac{1}{2}$
(iii) Statistical Ability

If a number is selected at random out of the first 120 natural numbers, then the probability that it is divisible by 5 or 8 is

120 నాట్యముల మధ్య ఏదైనా సమాచారం బాధితం చేసే సంఖ్య నిలువు వల్ల, 5 అని 8 ను భాగించడానికి సాధారణత ఎంత?

Options:

1. \(\frac{2}{5}\)
2. \(\frac{1}{5}\)
3. \(\frac{3}{10}\)
4. \(\frac{1}{2}\)
(iii) Statistical Ability

If a coin is tossed five times the probability that at least one head appears on the top is

\[
\begin{align*}
(1) & \quad \frac{1}{32} \\
(2) & \quad \frac{13}{32} \\
(3) & \quad \frac{31}{32} \\
(4) & \quad \frac{1}{16}
\end{align*}
\]

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 150  Question Id : 6672694517  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(iii) Statistical Ability

If $A$ and $B$ are two events in a random experiment with $P(A) = \frac{3}{8}$,

$$P(B) = \frac{5}{8} \text{ and } P(A \cap B) = \frac{1}{4}, \text{ then } P(A \cup B) =$$

$A, B$ are two events in a random experiment. $P(A) = \frac{3}{8}, \ P(B) = \frac{5}{8}$

$$P(A \cap B) = \frac{1}{4} \text{ hence } P(A \cup B) =$$

(1) $\frac{1}{4}$

(2) $\frac{3}{4}$

(3) $\frac{1}{2}$

(4) $\frac{3}{5}$

Options:
1. **1**
2. ✓ 2
3. **3**
4. **4**

Communication Ability

Section Id: 66726966
Section Number: 3
Section type: Online
Mandatory or Optional: Mandatory
Number of Questions: 38
Number of Questions to be attempted: 38
Section Marks: 50
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Choose the correct meaning for the word given:

**Throes**

(1) throw
(2) spasm
(3) develop
(4) rough

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Choose the correct meaning for the word given:

**Altercation**

(1) exchange of views
(2) dispute
(3) discussion
(4) expressing opinion

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
Choose the correct meaning for the word given:

**Victual**

(1) provisions
(2) real
(3) various
(4) simple

Options:
1. ✓ 1
2. * 2
3. * 3
4. * 4

Question Number: 154  Question Id: 6672694521  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0

Choose the correct meaning for the word given:

**Insipid**

(1) quick
(2) dirty
(3) tasteless
(4) diluted

Options:
1. * 1
2. * 2
3. ✓ 3
4. * 4

Question Number: 155  Question Id: 6672694522  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Choose the correct meaning for the word given:

Waylay

(1) road
(2) detain
(3) allow
(4) play

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Candid

(1) sweet
(2) pleasing
(3) frank
(4) dishonest

Options:
1. ✗ 1
2. ✔ 2
3. ✔ 3
4. ✗ 4
Fill in the blank choosing the correct word

The principal _________ the good character of the pupil.

(1) enforced
(2) endorsed
(3) executed
(4) implanted

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 158  Question Id : 6672694525  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

Fill in the blank choosing the correct word

Ramya _____________ her friend for being lazy

(1) admired
(2) repudiated
(3) reproached
(4) exorcised

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 159  Question Id : 6672694526  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
Fill in the blank choosing the correct word

Police investigators ______ the case with photographs and recorded interviews.

(1) interrogated
(2) followed
(3) flouted
(4) documented

Options:
1. ✄ 1
2. ✄ 2
3. ✄ 3
4. ✄ 4

Fill in the blank choosing the correct word

Many African countries are ________ by infighting and civil war

(1) devalued
(2) devastated
(3) deviated
(4) devoured

Options:
1. ✄ 1
2. ✄ 2
3. ✄ 3
4. ✄ 4
Choose the correct answer

Which of the following is the fastest way to connect to internet?

(1) Dial up modems
(2) ISDN
(3) Broadband DSL
(4) Fiber to the Home (FTTH)

Options:
1. * 1
2. * 2
3. * 3
4. ✓ 4

Choose the correct answer

Which of the following protocol converts the URL into the corresponding IP address of a webserver?

(1) DNS
(2) HTTP
(3) DHCP
(4) FTP

Options:
1. ✓ 1
2. * 2
3. * 3
4. * 4
Choose the correct answer

A Wireless communication technology intended to replace cables is known as

(1) Bit
(2) Blue tooth
(3) Book ink
(4) Boot

Options :
1. * 1
2. ✔ 2
3. * 3
4. * 4

Choose the correct answer

A Software program that has been developed to do harm to other computers in known as

(1) Malware
(2) Virus
(3) Phishing
(4) Spam

Options :
1. ✔ 1
2. * 2
3. * 3
4. * 4
Choose the correct answer

Which one of the following is not a characteristic of computers?

(1) Accuracy
(2) Fatigue
(3) Automation
(4) Robustness

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer

Which of the following describes the nature of management?

(1) Management is an exact science
(2) Management is liberal art
(3) Management is an inexact science
(4) Management is a fine art

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Choose the correct answer

What helps in easy identification and accounting of transactions at retail stores?

(1) Barcoding
(2) Balance sheet
(3) Management Information System
(4) Cost Sheet

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer

Who is the present Governor of RBI?

(1) Mr. Shaktikanta Das
(2) Dr. Urjit Patel
(3) Dr. Bimal Jalan
(4) Mr. Rajiv Kumar

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Choose the correct answer

Increase in value of an asset over time is known as

(1) Demand
(2) Appreciation
(3) Depreciation
(4) Inflation

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer

A short period of temporary economic decline during which trade and industrial activity is reduced is known as

(1) depression
(2) depreciation
(3) recession
(4) succession

Options:
1. ✗ 1
2. ✔ 2
3. ✔ 3
4. ✗ 4
Choose the correct answer

A: “He’s hoping to set up a travel business on his own.”
B: “Yes, but the likely cost of it all will put him off”.
‘B’ is

(1) encouraging
(2) sceptical
(3) enthusiastic
(4) disappointed

Options :
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer

A: “Why don’t you do the cooking today?”
B: “As far as cooking is concerned, I am a square peg in a round hole.”
‘B’ implies that he is

(1) uncomfortable
(2) agreeable
(3) happy
(4) competent

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Choose the correct answer

“He told us the story in a nutshell.” The meaning of the underlined phrase is

(1) to conclude
(2) to tell in a few words
(3) to tell elaborately
(4) to begin

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer

The passive form of the sentence, ‘Someone might have already dispatched the letters’ is

(1) Letters were dispatched already
(2) Letters might have been dispatched
(3) Letters might have already been dispatched
(4) Letters have been dispatched already

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Choose the correct answer

“Let’s run over the plans again.” The underlined phrase means

(1) read
(2) write
(3) store
(4) review

Choose the correct answer

“You really should put your foot down or there will be trouble later”. The underlined phrase means

(1) be kind
(2) be interested
(3) be firm
(4) be angry
Choose the correct answer

“I wouldn’t like to go through that again”. The underlined phrase means

(1) enter
(2) endure
(3) receive
(4) Raise

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

---

Fill in the blanks with the appropriate phase/verbs/preposition:

The intravenous drug will __________ through the patient’s body in about 20 minutes.

(1) defuse
(2) diffuse
(3) imbibe
(4) infuse

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

---
Fill in the blanks with the appropriate phase/verbs/preposition:

When he was teaching, all the students __________ silent.

(1) had been
(2) is
(3) were
(4) has been

Fill in the blanks with the appropriate phase/verbs/preposition:

When I was eating, the phone __________

(1) is ringing
(2) rang
(3) ringing
(4) ring
Fill in the blanks with the appropriate phase/verbs/preposition:

They got ____________ their car quickly

(1) in
(2) on
(3) into
(4) over

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Fill in the blanks with the appropriate phase/verbs/preposition:

We shall see whether they are amenable ________________ reason.

(1) for
(2) with
(3) against
(4) to

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✓ 4
Fill in the blanks with the appropriate phase/verbs/preposition:

There was an accident in the morning. A bus collided _____ a car

(1) into
(2) with
(3) on
(4) at

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Fill in the blanks with the appropriate phase/verbs/preposition:

Sales have really _____ now

(1) taken off
(2) taken up
(3) taken in
(4) taken to

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Fill in the blanks with the appropriate phase/verbs/preposition:

The summer ___________ very early in the South

(1) set in
(2) set off
(3) set up
(4) set on

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Read the following passage and answer questions

Unconsciously, managers without leadership qualities will often seek, above all else, to be liked. Rather than holding people accountable, they let them off the hook. They give non-performers the uneasy feeling that everything’s fine. They are managers who seek approval rather than respect. But this habit has a severe consequence. It leads to a lack of trust in the work place, the most common “issue” on employee surveys. A true leader does not focus first on trying to be liked. A true leader focuses on the practices and communications that lead to being respected. A true leader does not try to become everybody’s big buddy, although he or she values being upbeat and cheerful in communication. A true leader is not overly concerned with always being liked and is even willing to engage in very uncomfortable conversations in the name of being straight and thorough. A true leader does not try to downplay responsibility for leadership.

Sub questions
What does a bad leader seek?

(1) approval from others
(2) trust
(3) work
(4) lack of responsibility

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

What does “let them off the hook” mean?

(1) give them free time
(2) give them easy jobs
(3) encourage unaccountability
(4) punish them severely

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

What is the most common ‘issue’ on employee surveys?

(1) the manager is too popular
(2) the manager does not trust the worker
(3) there is no firm belief in the ability of managers
(4) the manager does not do any work.

Options:
Question Number : 189  Question Id : 6672694557  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Correct Marks : 1  Wrong Marks : 0
Single Line Question Option : No  Option Orientation : Vertical

“A true leader does not try to become everybody’s big buddy....” Explain

(1) everybody’s enemy
(2) everybody’s master
(3) everybody’s superior
(4) everybody’s friend

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 190  Question Id : 6672694558  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Correct Marks : 1  Wrong Marks : 0
Single Line Question Option : No  Option Orientation : Vertical

What is a true leader prepared to do?

(1) incur even displeasure to promote honesty and efficiency
(2) fight for his rights
(3) discipline his workers
(4) exploit his position

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Read the following passage and answer questions

You are poised at a crucial juncture of your life, when many paths are open to you. You are like a princess who has but to command and your desires are fulfilled. Still it would be prudent to remember that the saying “All that glitters is not gold”, was never truer than it is today. In this age of virtual reality all that your senses perceive will more often than not be an illusion. There are many rainbows that the world will display to entice you; make sure that what you chase will bear closer scrutiny; remember also that you win some and lose some, and above all never forget that hard work will always pay you in the long run—even if Lady Luck does not smile at you at first.

The glamour displayed in the media coupled with the success of some of your friends and acquaintances in beauty contests, modeling, acting and so on must be awfully tempting to emulate. You would do well, however, to peer behind the scenes and decide whether the world of cut-throat competition that exists behind the façade is something you can take in your stride. Spare a thought for the thousands who were possibly more beautiful, more gifted, more graceful but lost to anonymity having staked and lost all in the vicious rat race.

Sub questions

What does the discussion represent?

(1) dream world
(2) realism
(3) bad advice
(4) the future of films

Options :
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
What must be remembered?

(1) that you win some and lose some
(2) that you can win all, if you are clever
(3) that you win all and you lose some
(4) that you win some and lose all

What does happen even if Lady Luck does not smile on your face first?

(1) You will never be lucky
(2) Hard work will never pay
(3) You will stop working
(4) Hard work will always pay you in the long run
What does the success of some of your friends in beauty contests mean to you?

(1) it is tempting to emulate
(2) it makes one jealous
(3) it is insignificant
(4) it is a bad example

Options:
1. ✔
2. ❌
3. ❌
4. ❌

What must one keep in mind before deciding to enter into beauty contests, modeling, acting and so on?

(1) that one is bound to succeed anyway
(2) that the most beautiful will make it big
(3) that one needs a lot of grace to succeed
(4) that it is a rat race out there

Options:
1. ✔
2. ❌
3. ❌
4. ✔
Read the following passage and answer questions

The Japan Society’s crash course on how to bridge the chasm between Japanese and American managers forces participants to examine their own cultural assumptions, as well as to learn about the other side. Behaviors which Americans consider trustworthy are often precisely that which Japanese associate with shifty character and vice versa.

To Americans, people who pause before replying to a question are probably dissembling. They expect a trustworthy person to respond directly. The Japanese distrust such fluency. They are impressed by somebody who gives careful thought to a question before making a reply. Most Japanese are comfortable with periods of silence. Americans find silence awkward and like to plug only conversational gaps.

The cherished American characteristics of frankness and openness are also misunderstood. The Japanese think it is sensible as well as polite for a person to be discreet until he is sure that a business acquaintance will keep sensitive information confidential. An American who boasts, “I am my own man” can expect to find his Japanese’s hosts anxiously counting chopsticks after business lunch. As the Japanese see it, individuals are anti-social. Team players are sound.

Sub questions

The Japan Society’s crash course does not include one of the following

1. to examine cultural assumptions
2. to learn about each other’s cultural assumptions
3. to bridge the gap between American and Japanese managers
4. to judge the behaviour of both American and Japanese managers

Options:
1. **1**
2. **2**
3. **3**
If someone pauses before replying to a question, Americans think she/he is probably

(1) giving a careful thought
(2) putting a false front
(3) reconsidering the idea
(4) considering a second line of opinion

Options:
1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4

The Japanese are impressed by

(1) careful thought before answering
(2) awkwardness in answering
(3) fluency in answering
(4) dissembling in answering

Options:
1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4
The Americans are embarrassed by

(1) careful replies
(2) hesitant answers
(3) silences in conversation
(4) frank outspokenness

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

“The Japanese think team players are sound”. ‘sound’ here means

(1) loud
(2) noisy
(3) reliable
(4) important

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4