

Management Aptitude Test (MAT)

Question Paper Held on 8-12-2012

Conducted By all India Management Association

Language Comprehension

Directions (Qs. 1 - 3): A sentence has been divided into four parts. Choose the part that has an error.

- 1. (1) In the past, behind the immediate popularity
 - (2) of the phonograph is the entire electric
 - (3) implosion that gave such new stress and
 - (4) importance to actual speech rhythms in music, poetry, and dance alike
- 2. (1) Science really begins when general principles
 - (2) have to be put to the test of fact
 - (3) and when practical problems and theoretical relations
 - (4) of relevant factors is used to manipulate reality in human action
- **3.** (1) If all cells are conceived primarily as a receptacles
 - (2) of the same genetic formula not only all
 - (3) the individuals, but all the cells of
 - (4) the same individuals what are they but the cancerous extension of this base formula?

Directions (Qs. 4 – 6): Rearrange the following letters and make a meaningful word which is opposite to the answers.

4. TSTHNAIE

(1) dential (2) decorte (3) careful (4) willing

5. NIETEMARG

(1) conscience (2) terminate (3) confrontation (4) considerate

6. TENALSGERI

(1) comfortable (2) combustible (3) confess (4) specialist



Directions (*Qs.* 7 – 26): Study the passages below and answer the questions that follow each passage.

PASSAGE - I

For decades, the Government has grappled with India's health care shortcomings by introducing various programmes. Despite some measure of success, the problem of universal health care access continues to fester like a recalcitrant sore. While there are several reasons for the lack of complete success in improving health care access, the overall problem may lie in the pursuit of improper priorities. To address access issued headon, radically improving primary health care in India should be top priority. A steep shortage in primary health care centres (PHCs) across India is the prime reason why villagers are forced to trek almost 20 km to reach the nearest PHC. This may still be of little use, because most PHCs are perpetually plagued by a supply and staff shortage, making matters worse for sick patients who expend time, energy and resources to reach the PHC. For people from towns and semi-urban areas seeking modern medical care the situation is no different since they need to travel to the nearest city. Despite 7,50,000 doctors registered with the Medical Council of India. the ground reality is that about 2,00,000 aren't active anymore. This means India has only one doctor to treat 2,000 people, instead of one doctor for every 1,000. Improving those figures will take time because the number of medical and nursing colleges cannot be hiked overnight to boost the output of medical graduates. The time has come to firmly recognise that health and health care issues cannot be left solely to the Government or public sector entities if India is to meet its health care targets including Millennium Development Goals for 2015. Such immense investments and specialised skills could best be tapped if public-private partnerships were promoted and Private companies encouraged to establish health care infrastructure in all geographies - urban, semi-urban and rural - particularly where primary health care is concerned. Estimated indicate that only 320 million people or 26 percent of India's population are covered under some form of medical insurance - public or private. In other words, large uncovered sections of the populace are forced to meet medical costs via out-ofpocket spends, causing immense financial burden and pushing many families into

- 7. What is/ are the primary reason(s) for the lack of complete success in improving health care in India?
 - A. Total government apathy in this area.
 - B. Policy makers' inability to properly priorities the measures required.
 - C. Shortage of PHCs across the country.
 - (1) A only
- (2) B only
- (3) A & C
- (4) A, B & C



- **8.** It is implied in the passage that
 - (1) when it comes to primary health care facilities, people from villages and towns are equally at a disadvantage
 - (2) PHCs established in the country actually become ineffective due to shortage of doctors and medical supplies
 - (3) the best way to ensure better health care facilities in the country is to privatise them completely
 - (4) with the will to work, government can improve health care facilities in the country within a short period
- **9.** Which of the following statements is/ are true in the context of the passage?
 - (1) A country's monetary health is directly affected by the physical health of its citizens
 - (2) India has lesser number of doctors and nurses than most other countries in the world
 - (3) Only about one-fourth of India's population has access to health insurance
 - (4) All these
- 10. Which of the following statements is/ are not true in the context of the passage?
 - **A.** The Government has failed to correctly assess the requirement of medical colleges in India.
 - B. Over 25% of the doctors who register with the Medical Council of India never get into the medical profession.
 - C. Private participation in the primary health sector is a must to ensure its success we go forward towards Millennium Development Goals for 2015.
 - (1) A only
- (2) B only
- (3) A & B
- (4) A, B & C

PASSAGE - II

With will and vision, India's energy prospects can be changed from grim to green, and the world will benefit as a result, At 571 kWh per capita, India's electricity consumption is one-fifth of China's (2,631 kWh) and less than one - twentieth of the USA's (12,914 kWh). India's electricity demand will only grow. Solar electricity today at Rs.7.50 a kWh is economical compared with subsidised diesel generated power at roughly Rs.15 a unit, but more expensive than coal - based electricity at about Rs.6 And, in any case, India has ash - rich coal. What is the true cost of



coal - based power? Prices are distorted by subsidies, State boundaries, vote - bank politics, and uncharged carbon - emission costs. Can India leapfrog into a clean - energy future rather than extend the conventional grid with fossil fuels at its core? In a nation blessed with abundant sunlight, to what extent should electricity be a networking service at all? Could India tap ambient solar energy for most of its needs? India's single - minded focus should be massive and rapid solar deployment, not only through utility - scale solar plants, but also through distributed generation, household - by - household, nationwide. Electricity in Indian homes should be roof top - to - room and solar based with energy self - sufficiency as the goal; the grid can complement and serve as back - up where available. Anchored with solar, the solutions may include combinations with bio - diesel, batteries, wind, biogas, micro - hydro, etc. At night or when the sun is behind clouds, alternative yet local sources can assure electricity. Once solar energy takes root, India will need less of the colossal and wasteful transmission, distribution and generation infrastructure except for industrial operations such as running factories and trains.

- 11. Which of the following factors is/ are favouring India's transition to a clean energy future?
 - A) India has abundant sunlight.
 - B) India's electricity consumption is less than China's or the USA's?
 - C) India has ash rich coal

(1) A only

(2) A & B

(3) A & C

(4) C only

- 12. It is implied in the passage that
 - (1) 'electricity for all' should be the Government's motto
 - (2) traditional electric power should be replaced by solar electric power in India
 - (3) if India transforms itself into a clearn energy country, the rest of the world would benefit due to additional electricity available to them
 - (4) All these
- 13. It is not implied in the passage that
 - A) India should switch over completely to solar power by installing solar power kits in every household.
 - B) by installing solar panels on every roof top, India could make power grids redundant.
 - C) per capita energy consumption in China is higher than that in India

(1) A & B

(2) B & C

(3) A & C

(4) A, B & C



- 14. It can be inferred from the passage that
 - (1) India is the third largest producer of electricity in the world
 - (2) solar electricity is not necessarily more expensive than coal based electricity
 - (3) as of today India, as a country, has energy self sufficiency
 - (4) All these

Passage - III

The change in the Government's focus, from coveting the cash balances of public sector undertaking (PSUs) to examining how these can be put to better use by them, is a welcome development. In the current investment - starved environment, there is certainly a strong macro - economic imperative for inducing PSUs to deploy funds in capex programmes. But, from a shareholder's perspective- and that applies to the Government as well - it is also important that funds in excess of their immediate investment needs, estimated at over Rs. 1 lakh crore, earn a reasonable return. This is made difficult by rigid and archaic investment norms. So, it is a double whammy, wherein idle money of state - owned firms neither gets invested in projects nor generates sufficient portfolio returns. The current guidelines on deployment of surplus cash by PSUs decree that 60 percent of these should be parked with public sector banks. The 'public sector' mutual funds requirement is outdated, when many of them promoted by the likes of UTI, SBI and LIC have roped in foreign partners, making these ventures little different from pure private sector fund houses. Now that the investment guidelines are to be reviewed by a Government committee, it may be best for the Government to just stipulate general prudential norms to be followed by PSUs. These norms could emphasise safety liquidity of investments, their diversification across asset classes and securities, and provisions against taking speculative bets, that expose shareholder funds to capital loss risks.

- 15. The objective of the author in writing this article appears to be to
 - (1) advise the government in financial management of the surplus funds of PSUs
 - (2) analyse the possible ways in which PSUs could invest their surplus funds to make the same more productive.
 - (3) ensure better returns for private shareholders.
 - (4) criticise the government for its archaic fiscal and investment policies.



- **16.** What are the twin benefits that the author suggests would accure, if PSUs invest their surplus funds more prudently?
 - (1) Public sector and private sector banks would both get more money into their coffers.
 - (2) Both the Government and private shareholders would earn more returns on their investments in PSU shares.
 - (3) Projects meant for general public good would get funds more readily; while the funds themselves earn good returns instead of being idly parked.
 - (4) None of these
- **17.** It is implied in the passage that the Government.
 - A) had hitherto been unjustly siphoning off the surplus funds of PSUs.
 - B) is bereft of ideas when it comes to deciding where to park the surplus funds of PSUs
 - C) had always favoured channelising the surplus funds of PSUs into public sector banks.
 - (1) A only
- (2) B only
- (3) C only
- (4) A & B
- **18.** Which of the following statements about mutual funds is not true in the context of the passage?
 - (1) 'Public Sector' mutual fund company is a misnomer now, as most of these companies have got 'foreign', private partners.
 - (2) Mutual funds of private sector banks alone give good returns
 - (3) Every PSU has to invest at least 30% of its cash surplus in public sector mutual funds
 - (4) All these

PASSAGE - IV

The first requirement to ensure nuclear safety is technical expertise which India has. No questions have been raised so far about the expertise in Department of Atomic Energy (DAE). The first reactors were imported. Soon after commissioning the original suppliers left leaving us to fend for ourselves. The reactors have been running for decades without any serious environmental issues. More reactors have since been built indigenously with enhanced safety features, and increased power rating. Continuous monitoring of these shows negligible environmental impact compared to



that arising from natural background radiation. All of this as possible because of the expertise available in DAE institutions. In the early years, there was self-regulation of safety. It had to be so because there was no other group working in this field. It worked very well. As the programme expanded, a full-time regulatory body was needed and, so, the Atomic Energy Regulatory Board (AERB) came into being. Continuing absence of education and research a nuclear technology in academic institutions meant the AERB had to be staffed with experts transferred to it from DAE units. AERB also had to rely on expertise in DAE for various kinds of analyses. This was facilitated by the AERB being under the Atomic Energy Commission (AEC). Information that ought to have been disseminated in the first place was not available to the public. This has naturally tended to imputed motives on attitude of AERB and DAE to safety. An independent regulator is being demanded as the answer. Steps have to be initiated in the direction now. Meanwhile, reliance on expertise in DAE institutions is inevitable. If total independence now is impractical and expertise outside DAE is unavailable, only total transparency on the part of AERB and DAE can redeem the situation. This had not yet come about. If a larger contribution from nuclear energy is required, more effort is needed to effectively answer public questions on plant safety and to dispel needless fear of radiation. A brand new independent agency to be set up now to regulate nuclear safety may please some people, but would find it difficult to cope with the demands of an expanding programme with new designs.

- **19.** Which of the following statements about India's nuclear capability building is/ are true?
 - (1) India has depended on foreign countries to set up the first nuclear reactors in India
 - (2) To this day India continues to be dependent on foreign countries for maintenance of its nuclear installations.
 - (3) India has never faced any issues related to environment at its nuclear installations.
 - (4) All these
- 20. How is the safety of nuclear reactors in India ensured?
 - (1) By keeping usage of radio-active-material to the minimum
 - (2) By locating the reactors in distant places, far from human habitation.
 - (3) By ensuring regular inspections by experts available in India
 - (4) None of these



21. The author is of the view that

- (1) there is severe lack of educational programmes in the field of nuclear technology in India.
- (2) the Government agencies have failed to suitably assure the public that the nuclear reactors installed in India pose no threat in general.
- (3) nuclear energy can play a bigger role than present in India.
- (4) All these

22. All of the following statements are implied in the passage except

- (1) the foreign suppliers of India's first nuclear reactors abandoned them right after installation.
- (2) indigenous technical expertise is enough to ensure the safety of Indian nuclear power installations
- (3) nuclear radiation is not a factor to be feared by the people of India.
- (4) no new regulatory body is required to ensure nuclear safety in India.

PASSAGE - V

Apprehensive that pharma companies may stop or reduce production of essential drugs after they come under price control, the Government is mulling steps to ensure that companies maintain present levels of output of these critical drugs. Sources said the recent decision to put a price cap 348 drugs was accompanied by a concern that the manufactures could lose interest in these medicines owing to reduced margins of profit. It was based on the past experience when the drug price control was first enacted. The Group of Ministers (GoM) that took the landmark decision directed the Department of Pharmaceutical to ensure that present production levels were maintained after the price control. As a follow-up, sources said, the Government could fix mandatory level of production in these drugs for each company in business. The fear over companies retaliating with decrease production revolves around the fact the price control would check profit margins. Once the essential medicines are brought under the Drug Price Control Order, they cannot be sold at a price highter than that fixed by the Government. A senior official said, "We will ensure that accessibility and availability of essential drugs does not go down". The GoM has also decided that the prices of medicines, which are part of the price control order of 1995 but not in the National



List of Essential Medicines 2011, would be frozen for a year and thereafter a maximum increase of 10% per annum would be permitted. Out of the 348 medicines, the prices of 37 drugs are controlled by the National Pharmaceutical Pricing Authority (NPPA). The Government, through the NPPA, controls prices of 74 bulk drugs and their formulations.

- **23.** Which of the following is not outlined in the passage as a possible retaliatory measure of the pharma companies?
 - A. Altogether stopping production of the 348 essential drugs put under price control.
 - B. Reducing production of non essential drugs.
 - C. Strive to get the 348 drugs out of the list of essential drugs.

(1) A & B

(2) B & C

(3) A & C

(4) A, B & C

- **24.** It is implied in the passage that
 - (1) mandatory levels of production of essential drugs had hitherto never been in existence India
 - (2) Government control on drugs prices would directly affect their profit margins
 - (3) Both (1) and (2)
 - (4) Neither (1) nor (2)
- **25.** Which of the following is/ are the outcome(s) of the enactment of Drugs Price Control Order?
 - (1) The Government has also decided to take up widespread distribution of essential drugs.
 - (2) There is widespread resentment against this law; chiefly by the drug manufacturers
 - (3) The Department of Pharmaceutical has been formed to ensure proper implementation of the price control mechanism
 - (4) None of these
- 26. In India the government fixes the prices of

(1) all medicines

(2) essential drugs only

(3) bulk drugs only

(4) None of these



Dire	Directions (Qs. 27 – 29): Fill in the blanks.			
27.	Jayashree was habitually so docile and that her friends could not understand her sudden her employers.			
	(1) accommodating, outburst	against	(2) calm, anger for	
	(3) truculent, virulence towar	d	(4) quiet, annoyance	e toward
28.	Carried away by the 6 his desire to continue a		•	-
	(1) supplementary, announced	1	(2) smoothening, pr	oclaimed
	(3) satisfying, repeated		(4) salutary, reiterat	ed
29.	As several shops have	across the	street, the old directo	ory is
	(1) relocated, obsolete		(2) moved, wastefu	
	(3) transferred, useless		(4) travelled, redun	dant
Dire	ections (Qs. 30 - 33): Choose	the order o	f the sentences mark	ed A, B, C, D and E
to fo	orm a logical paragraph.		O	
30.	A) Easy or not, etiquette is in	nportant	* 20*	
	B) There's a reason for doing things the way we do them we just have no idea what it is.			
	C. I had to interrupt my cell p	hone call	to tell him off.	
	D. I was trying to explain the Becky, 11 who, I'm ashaperfect manners, especially	amed to say	y, have been allowed	
	E. At this particular family din his finger.	nner, I caug	ght Matt buttering his	s backed potato with
	(1) ABCDE (2) ABD	EC	(3) BCDAE	(4) BDACE
31.	A. "Are you all right?" I aske as bad as it gets."	d, as I help	oed her to her seat. "	That turbulence was
	B. Flying in the summer mea	ns one thir	g: turbulence.	
	C. I was working as a flight a after a young teenager, obv		-	
	D. After the bumps had subside etched on her face.	ded, she ex	tited the bathroom, a	look of sheer terror
	E. "So that's what it was," she	e said, "I tł	nought I'd pushed the	e wrong button."
	(1) DAEBC (2) BCD	AE	(3) AEBDC	(4) CADBE



32.	A. But, transportation is difficult and t Brazil.	the Pantanal is little	known outside of
	B. The people who live here have their f	ingers crossed.	
	C. Because if ecotourism doesn't work, t	there is no alternative	e waiting.
	D. There are now some 60-odd tourist locally owned.	facilities here, most	of them small and
	E. Worldwide, the jury is still out on the become a testing ground.	idea of ecotourism a	and the Pantanal has
	(1) EDABC	(2) DAEBC	
	(3) ECBAD	(4) EDCBA	
33.	A. And then suppose you pushed the 'Resiste direction journeying into the dim		
	B. Just suppose you could clamber at 'Forward' button.	poard a Time Macl	nine and press the
	C. You might just land right into your fa	vourite period of his	story.
	D. Zap would you hurtle forward thromonths and years even long centuries of the future?		
	E. A world that will be a marvel of techn	nology.	
	(1) CDABE (2) CBADE	(3) BDEAC	(4) BDECA
Dire	ections (Qs. 34 - 36): Rearrange the ju	imbled alphabets in	the following four
optio	ons and find the odd word among them.		
34.	(1) OTLLABFO	(2) NDPGOYLUAF	₹
	(3) AOHCC	(4) IONSNTCTOTI	C
35.	(1) SSSROCIS	(2) BELDA	
	(3) FIENK	(4) DIDLCNKOR	
36.	(1) YOJ	(2) SNAPIHSPE	
	(3) TEIHGTEDMNL	(4) RHICA	



Directions (Qs. 37 - 40): Each of these questions has a text portion followed by four alternative summaries. Choose the option that best captures the essence of the text.

- 37. An employee who is given the financial support and resources to create new products or systems is called an intrapreneur. Some of the greatest business leaders of the past made their early mark in business as intrapreneurs. Most progressive organisations view intrapreneurship as a way to develop and retain the best manpower and provide an entrepreneurial atmosphere within the organisation. It also adds to the potential of an otherwise static organisation.
 - (1) An entrepreneur works independently to setup a business venture while an intrapreneur does the same thing for the company he works for.
 - (2) Intrapreneurship helps organisations to nurture and retain the best of talent for mutual benefit.
 - (3) Big companies encourage intrapreneurship which, in turn, throws up future entrepreneurs.
 - (4) While entrepreneurship is a well known concept, intrapreneurship is an emerging concept.
- **38.** Health these days is being threatened by a growing phenomenon. Bacteria that cause common life threatening infections are becoming increasingly resistant to antibiotics. This is due to the widespread use and misuse of such antibiotics. Antimicrobial resistance needs immediate attention. Self-medication should be discouraged. Asepsis should be the gospel for the prevention of infection.
 - (1) Reckless use of antibiotics, the main cause of drug resistant bacteria, has led to a serious health challenge.
 - (2) Over the counter availability of antibiotics encourages self medication.
 - (3) Keeping our surroundings germ free can curb the need of antibiotics.
 - (4) Mutated drug resistant bacteria are a serious threat to our life.
- **39.** Satyagraha, a philosophy and practice of non-violent resistance, has the power to shame the powerful because it makes a moral statement before the society. But it is only effective when the practitioner acquires the moral right to undertake the action. Only a principled person can carry Satyagraha to its logical end. Any regime, liberal or illiberal, finds it tough to suppress this movement. This weapon of truth and non-violence rarely fails provided it is used selflessly in public interest. Satyagraha become Duragraha if it is used as blackmail.
 - (1) Satyagraha has time and again proved a powerful tool to fight for a just cause.
 - (2) Satyagraha is a battle which is sure to win over the opponents.
 - (3) Unfail demands through Satyagraha amount to blackmailing and are anti to the spirit of Satyagraha.
 - (4) The success of Satyagraha depends on the integrity, morality and uprightness of the person as well as the fairness of the cause.



- **40.** For long, sociologists have warned of the dire consequences of an increasingly skewed sex ratio. A falling sex ratio is a cumulative process which could lead to more crimes and violence against women. Without enough brides, men would be forced to purchase wives leading to human trafficking. This, in turn, would lead to insecure parents resorting to even more female foeticide and keeping girls indoors out of fear of their protection. In the long run all the gains made in pushing for greater female literacy and empowerment could be undone.
 - (1) The indiscriminate female foeticide has a potential to create an imbalance in our society and can push women empowerment backwards.
 - (2) The imbalance in male and female ratio can give rise to more crimes against women.
 - (3) Deficit in female population can lead to defunct family system.
 - (4) Skewed male female sex ratio has a potential to reduce women's statue in society.

Intelligence & Critical Reasoning

Directions (Qs. 41 – 43): Each of these questions has a statement followed by two conclusions I and II. Consider the statement and the following conclusions. Decide which of the conclusions follows from the statement. Mark answers as -

- (1) if conclusion I follows
- (2) if conclusion II follows
- (3) if neither conclusion follows
- (4) if both conclusions follow

41. Statement:

India has great potential for consumer products.

Conclusions:

- I. Inflation is curbing demand for consumer products.
- II. A very large population of the country has a great appetite for consumer products.

42. Statement:

Introduction of computers and networking revolutionised banking services.

Conclusions:

- 1. Computers have reduced paperwork to a very large extent
- II. All banking functions can be operated and viewed easily on computers.



43. Statement:

Productivity of Indian agriculture is very low.

Conclusions:

- I. Indian agriculture is largely dependent on timely rains
- II. Indian farmers have not introduced latest technology into the system

Directions (Qs. 44 – 46): Read the following information to answer these questions.

- I. P, Q, R, S, T and U are the six members of a family
- II. There is one Doctor, one Advocate, one Engineer, one Teacher, one Student and one Housewife among them.
- III. There are two married couples in the family.
- IV. U, who is an Advocate, is father of P.
- V. Q is a Teacher and is mother of R.
- VI. S is grandmother of R and is a Housewife.
- VII. T is the father of U and is a Doctor
- VIII. R is the brother of P.
- Which of the following statements is definitely true? 44.
 - (1) U is father of the Engineer
- (2) P is the Engineer
- (3) T is father of the Teacher
- (4) R is brother of the Student
- **45.** How many female members are there in the family?
 - (1) Three only

(2) Two or three

(3) Two only

(4) Three or four

- **46.** How is P related to S?
 - (1) Either grand daughter or grand son (2) Grand mother

(3) Grand son

(4) Grand daughter

Directions (*Qs.* 47 – 49): Read the following information to answer these questions.

In a family, there are 10 members, G and N are a married couple while K is the husband of X. In this family, there are four housewives and four working husbands while other members are non - working. The husband in the last generation is a doctor and the husband of S is a teacher. L is a married woman but her husband is not P. Q and K are associated with the profession of engineer and accountant but K is not and accountant. P is the brother of T and both have a sister O. N is the daughter of L and X is the mother of P.



	(1) 6	(2) 1	(3) 4	(4) 2	
48.	Who is the husband	of S?			
	(1) T	(2) K	(3) L	(4) P	
49.	Which of the follow	ring statements is no	ot true?		
	(1) Husband of X is	an engineer.			
	(2) Second generation	on members are S, I	P, T and O.		
	(3) The number of f	emale members in t	he family is 5.		
	(4) The accountant	and his wife belong	to the 4 th generation	1.	
Dire	ections (Qs. 50 – 52)	: Read the following	g information to ans	wer these questions.	
	I. PΨQ means P is	mother of Q.			
	II. P ε Q means P is	sister of Q.			
	III. P \$ Q means P i	s father of Q.		,	
	IV. P # Q means P i	s brother of Q.			
50.	Which of the follow	ving means D is defi	nitely daughter of A	?	
	(1) A \$ B # C # D		(2) C Ψ A \$ D ε B		
	(3) A Ψ C \$ B ε D		(4) B Ψ A \$ C # D		
51.	Which of the follow	ving means R is brot	ther of T?		
	(1) R Ψ S # U \$ T		(2) U Ψ R # S # T		
	(3) U Ψ R ε S # T	40	(4) K # R $\$$ S ϵ T		
52.	Which of the follow	ving means A is nepl	hew of C?		
	(1) D # C \$ B # A &	\mathbf{E}	(2) A # B \$ D ε E \$	S C	
	(3) C # D \$ B # A \$	E	(4) B Ψ E # C \$ E	εΑ	
Dire	ections (Qs. 53 – 55)	: Read the followin	g information to ans	wer these questions.	
Six members of a family G, H, I, J, K and L are Accountant, Clerk, Lawyer, Jeweller,					
Doc	Doctor and Engineer, but not in the same order.				
	I. Doctor is the gran	ndfather of L who is	an Accountant.		
	II. Clerk J is marrie	d to G.			
	III. I, who is a Jewe	eller, is married to th	e Lawyer.		
	IV. H is the mother	of L and K.			
	V. There are two married couples in the family.				

47. The family consists of how many generations?



53.	What is the professi	on of K?		
	(1) Doctor	(2) Clerk	(3) Engineer	(4) Accountant
54.	How many male me	embers are there in t	he family?	
	(1) Two		(2) Three	
	(3) Four		(4) Cannot be deter	rmined
55.	How is G related to	K?		
	(1) Wife		(2) Father	
	(3) Grandmother		(4) Grandfather	
Dire	ections (Qs. 56 – 58)	: Read the following	g information to ansv	wer these questions.
The	re are six children p	olaying football nan	nely G, H, I, J, K a	and L. G and K are
	hers. L is the only s		only son of G's und	cle. H and J are the
daug	ghters of the brother	of I's father.		
56.	How is J related to	G?		
	(1) Sister	(2) Niece	(3) Cousin	(4) Uncle
57.	How is I related to	L?	440	
	(1) Cousin	(2) Son	(3) Uncle	(4) Brother
58.	How many male pla	ayers are there?		
	(1) One	(2) Three	(3) Four	(4) Five
Dire	ection (Qs. 59 – 61):	In each of these que	estions, two statemen	ts I and II are given.
The	se may have a cause	and effect relationsh	ip or may have indep	pendent causes or be
the o	effects of independen	nt causes. Read the s	tatement and mark a	inswer as-
	(1) if statement I is	the cause and staten	nent II is its effect.	
	(2) if statement II is	the cause and state	ment I is its effect.	
	(3) if both the states	ments I and II are ef	fects of independent	causes.
	(4) if both the states	ments I and II are ef	fects of some commo	on cause.
59.	Statement I:			
	Drinking tea has a	number of health b	enefits. A cup of the	e beverage can help
	slash the risk of dev	reloping cancer by s	hrinking tumours.	
	Statement II:			
	The new research	has shown that bla	ck tea could help p	prevent cancer. The

compound Theaflavin-2 which has antioxidant properties reduces the risk of

some cancers as well as heart disease.



60. Statement I:

India has lost a staggering \$ 462 billion in illicit financial flows due to tax evasion, crime and corruption post - Independence according to a report released by Washington-based Global Financial Integrity.

Statement II:

More than 40% of the FDIs to India originate from Mauritius. Mauritius has now agreed to negotiate and revise the existing Double Taxation Avoidance Agreement (DTAA) with India, as capital gains is exempted from tax in Mauritius and a Mauritian company cannot be taxed in India.

61. Statement I:

Not a single Indian University, including the IITs, has fared well in an all-Asian varsity ranking for the year 2011. IIT - Bombay is the only one to figure in the world top 200 at 187, lower than the previous year's rank of 163.

Statement II:

A university founded merely two decades ago- the Hong Kong University of Science and Technology- has topped the charts. The university of Cambridge got a perfect 100. All the seven old IITs have made it to the Asian University ranking, but their ranks have slid.

Directions (Qs. 62 – 65): Each of these question consists of a pair of words bearing a certain relationship. From amongst the given alternatives, pick up the pair that best illustrates a similar relationship.

62. Presumption: Certainty

(1) Falsehood: Truth (2) Hearsay: Authenticity

(3) Theorem: Proof (4) Hunch: Guess

63. Coal : Thermal

(1) Power: Energy (2) Bulb: Light

(3) Air : Atmosphere (4) Water : Hydel

64. Court : Justice

(1) Police : Crime (2) Teacher : Study

(3) Doctor : Sickness (4) Auditor : Accuracy

65. Relaxation : Work

(1) Play: Cheat (2) Lunch: Dinner

(3) Smile: Laugh (4) Fresh: Stale



Dire	Direction (Qs. 66 - 70): Complete the series by replacing the '?'				
66.	B0R, E3U, G9Y, J18D, ?				
	(1) E30P	(2) H27N	(3) L30J	(4) G33U	
67.	A729, G343, ?, S9,	Y1			
	(1) L64	(2) M75	(3) Q100	(4) M125	
68.	Q331T, U442X, Y5	53A, ?			
	(1) Z665D	(2) C664C	(3) B666D	(4) B664F	
69.	RL12, TQ20, WU3	2, AX48, ?			
	(1) EZ68	(2) FZ68	(3) GZ68	(4) HZ68	
70.	V2R, Y8T, B15V, E	E76X, ?			
	(1) F350Z	(2) G452Z	(3) H355B	(4) H355Z	
71.	How is the son-in-la	aw of my wife's only	sister related to my	wife's brother?	
	(1) Cousin		(2) Nephew		
	(3) Uncle		(4) Brother-in-law		
72.	'B', the son of 'A', v	was wedded to 'C' w	hose sister 'D' was n	narried to 'E'. If E is	
	the brother of 'B', how is 'D' related to 'A'?				
	(1) Sister		(2) Daughter		
	(3) Daughter-in-law	1	(4) Cousin		
73.	Krishna is the moth	er - in - law of Bind	lu who is the sister -	in - law of Ahsaan.	
	Dharmender is the father of Sandeep, the only brother of Ahsaan. How is Krishna				
	related to Ahsaan?				
	(1) Wife	0	(2) Aunt		
	(3) Mother - in - lav	W	(4) Mother		
74.	A clock is place in	such a manner tha	t at 12 o' clock, its	minute-hand points	
	towards north-east.	In which direction d	loes its hour-hand po	oint at 1 : 30 pm?	
	(1) West	(2) South	(3) North	(4) East	
<i>75.</i>	Ram starts from his	s house on cycle and	d goes 10 km towar	ds North - East. He	
		•	ne turns towards Sou	·	
		Finally, he turns tow	vards his house. In w	which direction is he	
	going now?		(2) (2 . 4 . 5		
	(1) South		(2) South - East		
	(3) West		(4) North - West		



- **76.** Mahender walked 30 metres towards east, took a right turn and walked another 40 metres. He again took a left turn and moved 30 metres. In which direction is he now from the starting point?
 - (1) North East
- (2) East
- (3) South East
- (4) South

Directions (Qs. 77 – 80): Each of these questions has an assertion (A) and a reason (R). Mark answer as-

- (1) if both 'A' and 'R' are true and 'R' is the correct explanation of 'A'.
- (2) if both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'.
- (3) if 'A' is true but 'R' is false.
- (4) if 'A' is false but 'R' is true.
- 77. Assertion (A): It has now been proved that eating high fat diets, having decreased level of exercise and leading a stressful life lead to heart problems.
 - **Reason** (**R**): Fatty diets clot the blood in our arteries and hence sufficient amount of blood can't reach the heart vessels.
- **78.** Assertion (A): The screening of film 'ABC' has been stopped due to a High Court order.
 - **Reason (R):** People abide by the decisions of the High Court.
- **79. Assertion** (A): Residents of 'XYZ' colony in Delhi are agitating against the irregular and inadequate water supply in their colony.
 - **Reason** (R): Agitation is a basic right of people to get the water supply for their survival.
- **80.** Assertion (A): A student who is indisciplined brings a bad name to himself, his parents, his teachers and also to his institute.
 - **Reason** (R): We must find out the grievances of our students and try to resolve them to a reasonable level so that it generates self-discipline in them.

MATHEMATICAL SKILLS

- **81.** A and B can separately do a piece of work in 20 and 15 days, respectively. They worked together for 6 days, after which B was replaced by C. If the work was finished in the next 4 days, then the number of days in which C alone could do the work will be
 - (1) 60 days
- (2) 40 days
- (3) 35 days
- (4) 30 days



82.	B can do a piece of work in 6 hours, B and C together can do it in 4 hours, and			
	A, B and C together in $2\frac{2}{3}$ hours. In how many hours can A and B together do			
	the same piece of w	ork?		
	(1) 11 hours		(2) $6\frac{1}{7}$ hours	
	(3) $2\frac{3}{7}$ hours		(4) $3\frac{3}{7}$ hours	
83.	X can do $\frac{1}{4}$ of a wo	ork in 10 days, Y ca	n do 40% of the wor	k in 4 days and Z
	can do $\frac{1}{3}$ of the wo	ork in 13 days. Who	will complete of wo	ork first?
	(1) X	(2) Y	(3) Z	(4) X & Z both
84.		7 hours each. Ho		s B can do the same ake to do the work
		(2) 3 days	(3) $3\frac{1}{7}$ days	(4) $4\frac{2}{5}$ days
85.	to make up of the million bags. What million bags?	loss. But when onl	y 2 percent is lost,	in the country in $\frac{2}{3}$
86.	In a consumer preferences survey, 20% respondents opted for product A whereas 60% opted for product B. The remaining individuals were undecided. If the difference between those who opted for product B and those who were undecided is 720, how many individuals had been interviewed for the survey?			
	(1) 1440		(2) 1800	
	(3) 3600		(4) Data inadequate	2
87.		taxable purchases.		out of which 30 paise %, then what was the

(2) Rs.15.70 (3) Rs.19.70 (4) Rs.20

(1) Rs.15



88.	Shyam had three note books X, Y and Z. Of these, X had 120 pages, Y had 10% more and Z had 10% less. If he tore out 5%, 10% and 15% of pages in X, Y and Z respectively, then what percent of total pages did he tear out?			
	(1) 8%	(2) 15%	(3) 7%	(4) None of these
89.	A bag contains 4 fiv	e rupee coins, 3	two rupee coins and	d 3 one rupee coins. If 6
	coins are drawn from	n the bag at rand	dom, what are the oc	lds in favour of the draw
	yielding maximum	amount?		
	(1) 1:70	(2) 1:69	(3) 69:70	(4) 70 : 1
90.	Varun throw two un	biased dice toge	ether and gets a sum	of 7. If his friend Tarun
	then throws the sam	ne two dice, wha	at is the probability	that the sum is less than
	7?	7	1	E
	$(1)\frac{1}{6}$	$(2)\frac{7}{12}$	$(3)\frac{1}{2}$	$(4)\frac{5}{12}$
91.	In a factory where	toys are manufa	ctured, machines A,	B and C produce 25%,
	35% and 40% of the total toys, respectively. Of their output, 5%, 4% and 2%			output, 5%, 4% and 2%
	respectively, are defective toys. If a toy drawn at random is found to be defective,			
	what is the probabil	ity that it is mar	nufactured on machin	ne B?
	$(1)\frac{17}{69}$	$(2)\frac{28}{69}$	$(3)\frac{35}{69}$	(4) None of these
92.	A and B alternately	throw a pair of	dice. A wins if he th	nrows 6 before B throws
	7; and B wins if he t	hrows 7 before A	A throws 6. What are	their respective chances
	of winning, if A thro	ows the dice firs	t?	
	$(1) \ \frac{13}{16} \ , \frac{31}{16}$	2	$(2)\frac{30}{61}, \frac{31}{61}$	
	$(3)\frac{31}{61},\frac{41}{61}$		$(4)\frac{38}{61},\frac{23}{61}$	
93.			erest earned by a cer	tain amount at the same
	rate of interest for 6	years and 9 years	ars?	
	(1) 1 : 3		(2) 1 : 4	
	(3) 2 : 3		(4) Data inadeo	luate
94.	An automobile fina	ncier claims to	be lending money a	at simple interest but he
	includes the interes	st every six mo	onths for calculating	the principal. If he is
	charging an interest of 10%, the effective rate of interest becomes			

(2) 10.25% (3) 10.5% (4) None of these

(1) 10%



95.	A sum of money lent at compound interest for 2 years at 20% per annum would fetch Rs.482 more. If the interest was payable half yearly than if it was payable annually, the sum is			
	(1) Rs.10,000	(2) Rs.20,000	(3) Rs.40,000	(4) Rs.50,000
96.	sum of Rs.2240 at		f the same sum is cle	vas supposed to pay a eared off in four equal installment will be
	(1) Rs.500	(2) Rs.550	(3) Rs.600	(4) Rs.1000
97.	diameter of the bas	•	slant height of the co	nical above it. If the onical portion is 80 m,
	(1) 8960 m	(2) 9660 m	(3) 9460 m	(4) 9860 m
98.	cycling along the b	-	at the speed of 12	park is 3 : 2. If a man km/h completes one
	(1) 15360	(2) 153600	(3) 30720	(4) 307200
99.	•	resenting volume and of the cube in terms		be are equal, then the urement will be
	(1) 3	(2) 4	(3) 5	(4) 6
100.		m long, 8 cm broad the surface area of		elted into a cube. The
	$(1) 284 \text{ cm}^2$	$(2) 296 \text{ cm}^2$	$(3) 286 \text{ cm}^2$	$(4) 300 \text{ cm}^2$
101.	with half as many		ner they had 60 mor	20 balls to A, he is left re balls, each of them of x to y?
	(1) 3:2	(2) 2 : 3	(3) 2 : 1	$(4) \ 3 : 4$
	students of the first four-fifths of the fo	t school, two-thirds ourth are all equal. V	of the second, three-the what is the ratio of the	t. Half the number of fourth of the third and ne number of students I and fourth schools,
	(1) 8:5	(2) 1:3	(3) 2:3	(4) 7:9
103.		the mean is 5. The ra	_	of the four numbers is as is 1 : 3. What is the
	(1) 1	(2) 3	(3) 5	(4) 6



104.	The concentration of petrol in three different mixtures (of petrol and kerosene) is			
	$\frac{1}{2}$, $\frac{3}{5}$ and $\frac{4}{5}$ respectively. If 2 litres, 3 litres and 1 litre are taken from these			
	three different vesse	els and mixed, what	is the ratio of petrol	and kerosene in the
	new mixture?			
	(1) 4:5	(2) 3 : 2	(3) 3:5	(4) 2:3
105.		rircular table. How r	for a business meet many different arrang ther side of the host	gements are possible
	(1) 10080	(2) 10800	(3) 9200	(4) 4600
106.	Find the number of to make a garland together?	in such a way th	nat three particular	flowers are always
	(1) 30240	(2) 30420	(3) 23400	(4) None of these
107.	_	Three are managers can the committee anager?	s and, one is both enge be selected if it me	gineer and manager.
	(1) 33	(2) 22	(3) 11	(4) 66
108.	be formed so that th	nd 2 wicket-keepers e team has at least 3	s. In how many differ 3 bowlers and wicket	rent ways can a team keeper?
100			(3) 2427	
109.	09. Vijay purchased two different kinds of alcohol. In the first mixture the ratio of alcohol to water is 3:4 and in the second mixture it is 5:6. If he mixes the two given mixtures and makes a third mixture of 18 litres in which the ratio of alcohol to water is 4:5, the quantity of the first mixture (whose ratio is 3:4) that is required to make 18 litres of the third kind of mixture is (1) 6 (2) 7 (3) 8 (4) 9			
110.	The average marks	of the students in fo	our sections A, B, C	and D of a school is
	60%. The average in 50%, 72% and 80 sections A and B to	narks of the student %, respectively. If gether is 48% and the	s of A, B, C and D in the average marks nat of the students of f students in sections (3) 5:3	adividually are 45%, of the students of B and C together is



111. Two casks of 48 litres and 42 litres are	e filled with mixtures of milk and water; g respectively, 13: 7 and 18: 17. If the		
• •	d 20 litres of water be added to the whole,		
what will be the proportion of milk and			
(1) 5:12 $(2) 7:13$	(3) 12:13 (4) 8:15		
112. Two companies A and B quote for a	tender. On the tender opening day, A		
realises that the two quotes are in the	ratio 7: 4 and hence decreases its price		
6 6	akh lower than B's quoted price. B then		
•	were in the ratio 3: 4. By how much did		
A decrease its price in order to win the			
(1) Rs.7 Lakhs	(2) Rs.4 lakhs		
(3) Rs.9 lakhs	(4) None of these		
113. To fill a certain tank, pipes A, B and			
long will it take to fill the tank?	s are opened every alternate minute, how		
(1) 5 minutes (2) 10 minutes	(3) 12 minutes (4) 15 minutes		
114. A bath can be filled by the cold water a	the bathroom after turning on both pipes		
	ent when the bath should be full. Finding,		
	open, he then closes it. In exactly four		
minutes more the bath is full. In how m	uch time would the waste pipe empty the		
full bath, if it alone is opened?			
(1) 9 minutes	(2) 10 minutes		
(3) 12 minutes	(4) None of these		
115. A, B and C are three pipes attached to a	cistern. A and B can fill if in 20 minutes		
and 30 minutes respectively, while C c	an empty it in 15 minutes. If A, B and C		
	each, how soon will the cistern be filled?		
(1) 180 minutes (2) 60 minutes	(3) 157 minutes (4) 155 minutes		
116. Two taps can separately full a cistern in 10 minutes and 15 minutes respectively.			
	kept open simultaneously, the cistern gets		
filled in 18 minutes. The waste pipe car			
(1) 7 minutes	(2) 13 minutes		
(3) 23 minutes	(4) 9 minutes		



- 117. Raghu travelled 1200 km by air which formed $\frac{2}{5}$ th of his trip. One third of the whole tripe he travelled by car and the rest of the journey he did be train. The distance travelled by train is
 - (1) 1600 km
- (2) 800 km
- (3) 1800 km
- (4) 480 km
- 118. A man has to cover a distance of 6 km in 45 minutes. If he covers one-half of the distance in $\frac{2}{3}$ rd time, what should be his speed to cover the remaining distance in the remaining time?
 - (1) 12 km/h
- (2) 16 km/h
- (3) 3 km/h
- (4) 8 km/h
- 119. A man starts cycling from A to B and, at the same time, another man starts cycling from B to A along the same path. They completed their journeys in $1\frac{2}{3}$ and $2\frac{2}{5}$ hours, respectively. At what speed has the second man cycled if the first cycles at 16 km/h?
 - (1) $16\frac{1}{2}$ km/h

(2) $18\frac{1}{2}$ kh/h

(3) $11\frac{1}{9}$ km/h

- (4) $13 \frac{1}{3}$ km/h
- **120.** Two men A and B start walking from a place 'X' at $4\frac{1}{2}$ km/h and $5\frac{3}{4}$ km/h, respectively. How many km apart will they be at the end of $3\frac{1}{2}$ hours if they are walking in the same direction?

- (1) $4\frac{1}{2}$ km (2) $5\frac{3}{4}$ km (3) $4\frac{3}{8}$ km 4) $35\frac{7}{8}$ km

ANSWERS

1-2; 2-4; 3-1; 4-4; 5-2; 6-4; 7-2; 8-2; 9-4; 10-4; 11-1; 12-2; 13-1; 14-2; 15-2; 16-2; 17-2; 18-3; 19-1; 20-3; 21-2; 22-4; 23-4; 24-3; 25-4; 26-2; 27-1; 28-3; 29-1; 30-2; 31-2; 32-3; 33-4; 34-4; 35-4; 36-4; 37-3; 38-3; 39-4; 40-2; 41-2; 42-1; 43-4; 44-1; 45-2; 46-1; 47-3; 48-4; 49-4; 50-2; 51-2; 52-3; 53-3; 54-4; 55-4; 56-3; 57-1; 58-2; 59-2; 60-3; 61-4; 62-2; 63-4; 64-3; 65-4; 66-3; 67-4; 68-2; 69-2; 70-4; 71-(None): Son-in-law; 72-3; 73-4; 74-4; 75-4; 76-3; 77-1; 78-1; 79-1; 80-2. 81-2; 82-4; 83-3; 84-2; 85-4; 86-2; 87-3; 88-4; 89-2; 90-4; 91-2; 92-2; 93-3; 94-2; 95-2; 96-1; 97-3; 98-2; 99-4; 100-3; 101-2; 102-1; 103-3; 104-2; 105-1; 106-1; 107-1; 108-1; 109-2; 110-2; 111-3; 112-2; 113-4; 114-1; 115-1; 116-4; 117-2; 118-1; 119-3; 120-3.