Management Aptitude Test (MAT)

Question Paper

Held on A-11-1.11

Conducted By all India Management Association

Language Comprehension

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

 v_{i} (v) In the past, behind the immediate popularity

(r) of the phonograph is the entire electric

(r) implosion that gave such new stress and

(1) importance to actual speech rhythms in music, poetry, and dance alike

- $r_{.}$ (1) Science really begins when general principles
 - (r) have to be put to the test of fact
 - (r) and when practical problems and theoretical relations
 - (\mathfrak{s}) of relevant factors is used to manipulate reality in human action
- $_{r_{1}}$ ()) If all cells are conceived primarily as a receptacles
 - (r) of the same genetic formula not only all
 - (\mathfrak{r}) the individuals , but all the cells of
 - (٤) the same individuals what are they but the cancerous extension of this base formulas

Directions $(Qs. \epsilon - \tau)$: Rearrange the following letters and make a meaningful word which is opposite to the answers.

٤.	TSTHNAIE (1) dential NIETEMARG	(٢) decorte	(٣) careful	(٤) willing
٥.	(1) conscienceTENALSGERI(1)	(۲) terminate	(۳) confrontation	(٤) considerate
٦.	comfortable	(۲) combustible	(٣) confess	(٤) specialist

Directions $(Qs. v - \tau \tau)$: 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 shortcom- ings by introducing various programmes. Despite some measure of success, the prob-lem 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. Asteep shortage in primary health care centres (PHCs) across Ind is the prime reason why villagers are forced to trek almost v. km to reach the nearest PHC. This may still be of little use, because most PHCs are perpetually plaqued by a sup- ply and staff shortage, making matters worse for sick patients who expend time, ener- gy and resources to readh the PHC. For people from towns and semi-urban areas seek- ing modern medical care the situation is no different since they need to travel to the nearest city. Despite v.o., ... doctors registered with the Medical Council of India, the ground reality is that about $\gamma_1, \dots, \gamma_n$ aren't active anymore. This means India has only one doctor to treat \mathbf{x}_{i} , \mathbf{y}_{i} people, instead of one doctor for every χ_{i} . Improving those figures will take time because the number of medical and nursing colleges can- not 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 ϕ r public sector entities if India is to meet its health care targets includ- ing Millennium Development Goals for 1000. Such immense investments and spe- cialised 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 **rr**, million people or **r**r percent of India's population are covered under some form of medical insurance – public or private. In other words

v lar yehaticovaneth septimary of the operation of the sequence of the sequ

B. Policy makers' inability to properly priorities the measures required.

C. Shortage of PHCs across the country.

(1) Aonly (1) Bonly (1) A&C (1) A, B&C

- A. It is implied in the passage that
 - ()) when it comes to primary health care facilities. people from villages and towns are equally at a disadvantage
 - (r) PHCs established in the country actually become ineffective due to shortage of doctors and medical supplies
 - (r) the best way to ensure better health care facilities in the country is to privatise them completely
 - (1) with the will to work (government can improve health care facilities in the country within a short period
- \mathbf{v}_{\cdot} Which of the following statements is / are true in the context of the passages
 - (1) Acountry's monetary health is directly affected by the physical health of its citizens
 - (r) India has lesser number of doctors and nurses than most other countries in th world
 - (r) Only about one-fourth of India's population has access to health insurance
 - (٤) All these
- $\mathbf{v}_{\mathbf{v}}$ Which of the following statements is / are not true in the context of the passages
 - A. The Government has failed to correctly assess the requirement of medical colleges in India.
 - B. Over Yo% 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 1010.

(1) Aonly (1) Bonly (1) A&B (ϵ) A, B&C PASSAGE – II

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

coal – based powers Prices are distorted by subsidies. State boundaries vote - bank politics, and uncharged carbon - emission costs. Can India leapfrog into a clean - ener-gy future rather than extend the conventional grid with fossil fuels at its cores In a nation blessed with abundant sunlight, to what extent should electricity be a network- ing service at alls 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 trans inission, distribution and lean generation infrastructure except for industrial operations such as running factories and trains.

A) India has abundant sunlight.

B) India's electricity consumption is less than China's or the USA's \mathfrak{s}

C) India has ash – rich coal

(1) Aonly (1) A&B (1) A&C (2) C only

۱۲. It is implied in the passage that

()) 'electricity – for – all' should be the Government's motto

(r) traditional electric power should be replaced by solar electric power in India

(r) if India transforms itself into a clearn energy country, the rest of the world would benefit due to additional electricity available to them

(٤) All these

- - 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 (1) B & C (1) A& C (1) A, B & C

- $v \epsilon$. It can be inferred from the passage that
 - () India is the third largest producer of electricity in the world
 - (r) solar electricity is not necessarily more expensive than coal based electricity

(r) as of today India , as a country , has energy self – sufficiency

(٤) 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 cape 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. Alakh 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 gen-erates sufficient portfolio returns. The current guidelines on deployment of surplus cash by PSUs decree that τ 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 dyPSUs These norms could emphasise safety liquidity of investments. The objective of the author in writing this article appears to be to their diversification across asset classes and securities. and provisions (1) advise the government in financial management of the surplus funds of PSUs against taking speculative bets. that expose shareholder funds to capital loss render the possible ways in which PSUs could invest their surplus funds to

make the same more productive.

(r) ensure better returns for private shareholders.

 $(\mathfrak{z})\ criticise\ the\ government\ for\ its\ archaic\ fiscal\ and\ investment\ policies\ .$

- ۲۰. What are the twin benefits that the author suggests would accure، if PSUs invest their surplus funds more prudentlys
 - (1) Public sector and private sector banks would both get more money into their coffers.
 - (r) Both the Government and private shareholders would earn more returns of their investments in PSU shares.
 - (r) Projects meant for general public good would get funds more readily while the funds themselves earn good returns instead of being idly parked.
 - (٤) None of these
- vv. 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 pub ic sector banks.
 - (1) Aonly (1) Bonly (1) Conly (1) A& B
- NA. Which of the following statements about mutual funds is not true in the context of the passages
 - (1) 'Public Sector' mutual fund company is a misnomer now, as most of these companies have got 'foreign', private partners.
 - (r) Mutual funds of private sector banks alone give good returns
 - (r) Every PSU has to invest at least r, % of its cash surplus in public sector mutual funds
 - (٤) 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 Departme 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 run- ning 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 inde- pendent 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 car 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. Abrand new independent agency to be set up now to regu- late huclear safety may please some people. but would find it officility building is / with the demands of an expanding programme with new designs.

- ()) India has depended on foreign countries to set up the first nuclear reactors in India
- (r) To this day India continues to be dependent on foreign countries for maintenance of its nuclear installations.
- (r) India has never faced any issues related to environment at its nuclear installations.
- (E) All these
- τ . How is the safety of nuclear reactors in India ensured τ
 - ()) By keeping usage of radio-active-material to the minimum
 - (r) By locating the reactors in distant places ι far from human habitation
 - (r) By ensuring regular inspections by experts available in India
 - (٤) None of these

- The author is of the view that
 - (1) there is severe lack of educational programmes in the field of nuclear technology in India.
 - (r) the Government agencies have failed to suitably assure the public that the nuclear reactors installed in India pose no threat in general.
 - (r) nuclear energy can play a bigger role than present in India.
 - (٤) All these
- 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.
 - (r) indigenous technical expertise is enough to ensure the safety of Indian nuclear power installations
 - (r) nuclear radiation is not a factor to be feared by the people of India.
 - (٤) 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 $r \in A$ drugs was accompanie ϕ by a concern that the manufactures could lose interest in these medicines owing to reduc margins of profit. It was based on the past experience when the drug price control w first enacted. The Group of Ministers (GoM) that took the landmark decision directed the Department of Pharmaceutical to ensure that present production levels were ma tained 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 pr control would check profit margins. Once the essential medicines are brought und the Drug Price Control Order, they cannot be sold at a price highter than that fixed by the Government. Asenior official said. 'We will ensure that accessibility and avail- ability 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 1990 but not in the National

List of Essential Medicines τ_{*} , would be frozen for a year and thereafter a maxi- mum increase of τ_{*} per annum would be permitted. Out of the τ_{*} medicines, the prices of τ_{v} drugs are controlled by the National Pharmaceutical Pricing Authority (NPPA). The Government, through the NPPA, controls prices of v_{*} bulk drugs and their formulations.

- ۲۳. 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 real essential drugs put under price control.
 - B. Reducing production of non essential drugs.
 - C. Strive to get the $r \epsilon \wedge drugs$ out of the list of essential drugs.
 - (1) A& B (1) B & C (τ) A& C (ε) A, B & C
- $\tau \, \epsilon$. It is implied in the passage that
 - (1) mandatory levels of production of essential drugs had hitherto never been in existence India
 - (r) Government control on drugs prices would directly affect their profit margins
 - (r) Both (1) and (1)
 - (ϵ) Neither (γ) nor (γ)
- ۲۰. Which of the following is / are the outcome(s) of the enactment of Drugs Price Control Orders
 - (1) The Government has also decided to take up widespread distribution of essential drugs.
 - (r) There is widespread resentment against this law chiefly by the drug manufacturers
 - (r) The Department of Pharmaceutical has been formed to ensure proper imple mentation of the price control mechanism
 - (٤) None of these
- ۲٦. In India the government fixes the prices of
 - (1) all medicines (1) essential drugs only
 - (r) bulk drugs only (i) None of these

Directions $(Qs. \gamma v - \gamma q)$: Fill in the blanks.

- vv. Jayashree was habitually so docile and that her friends could not under stand her sudden her employers.
 - (۱) accommodating، outburst against) calm، anger for
 - (r) truculent, virulence toward (s) quiet, annoyance toward
- ۲۸. Carried away by the effect of the experimental medication، the patient his desire to continue as a subject for as long as he could.
 - (1) supplementary, announced (1) smoothening, proclaimed
 - (r) satisfying, repeated (1) salutary, reiterated
- ۲۹. As several shops have across the street، the old directory is
 - (1) relocated, obsolete (1) moved, wasteful
 - (٣) transferred، useless (٤) travelled، redundant

Directions (Qs. $r \cdot -rr$): Choose the order of the sentences marked A, B, C, D and E to form a logical paragraph.

- ۳۰. A) Easy or not، etiquette is important
 - 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 phone call to tell him off.

D. I was trying to explain this the other night to my children -- Matt α , and Becky α α --- who α I'm ashamed to say α have been allowed to develop less than perfect manners α especially at the table.

E. At this particular family dinner. I caught Matt buttering his backed potato with his finger.

(1) ABCDE (1) ABDEC (1) BCDAE (2) BDACE

۳۱. A. "Are you all rights" I asked، as I helped her to her seat. "That turbulence was as bad as it gets."

B. Flying in the summer means one thing: turbulence.

C. I was working as a flight attendant when we hit a patch of very rough air just after a young teenager , obviously on her first flight , had entered the bathroom.

- D. After the bumps had subsided, she exited the bathroom, a look of sheer terre etched on her face.
- E. "So that's what it was ." she said . "I thought I'd pushed the wrong button."
- (1) DAEBC (1) BCDAE (1) AEBDC (2) CADBE

- ۳۲. A. But، transportation is difficult and the Pantanal is little known outside of Brazil.
 - B. The people who live here have their fingers crossed.
 - C. Because if ecotourism doesn't work, there is no alternative waiting.
 - D. There are now some w-odd tourist facilities here most of them small and locally owned.
 - E. Worldwide, the jury is still out on the idea of ecotourism and the Pantanal has become a testing ground.

(1) EDABC	(Y) DAEBC

- (r) ECBAD (٤) EDCBA
- rr. A. And then suppose you pushed the 'Reverse' button and took a trip in the oppo site direction journeying into the dim recesses of the past.
 - B. Just suppose you could clamber aboard a Time Machine and press the 'Forward' button.
 - C. You might just land right into your favourite period of history.

D. Zap... would you hurtle forward through a blinding flash of days and nights months and years-- even long centuries--- perhaps, to land into an alien world of the future....s

E. Aworld that will be a marvel of technology.

 (١) CDABE
 (٢) CBADE
 (٣) BDEAC
 (ε) BDECA

Directions (Qs. $r \epsilon - r \tau$): Rearrange the jumbled alphabets in the following four options and find the odd word among them.

Ψ٤. (١) OTLLABFO	(Y) NDPGOYLUAR
(٣) ΑΟΗϹϹ	(٤) IONSNTCTOTIC
۳۵. (۱) SSSROCIS	(Y) BELDA
(٣) FIENK	(٤) DIDLCNKOR
Ψ٦. (١)YOJ	(Y) SNAPIHSPE
(٣) TEIHGTEDMNL	(٤) RHICA

Directions (Qs. $\forall v - \varepsilon \cdot$): Each of these questions has a text portion followed by four alternative summaries. Choose the option that best captures the essence of the tex

rv. 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.

- ()) An entrepreneur works independently to setup a business venture while an intrapreneur does the same thing for the company he works for.
- (r) Intrapreneurship helps organisations to nurture and retain the best of talent mutual benefit.
- (r) Big companies encourage intrapreneurship which, in turn, throws up futur entrepreneurs.
- (٤) While entrepreneurship is a well known concept ، intrapreneurship is an emerging concept.

*****A. 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.
- (r) Over the counter availability of antibiotics encourages self medication.
- (r) Keeping our surroundings germ free can curb the need of antibiotics.
- (٤) Mutated drug resistant bacteria are a serious threat to our life.

rs. Satyagraha, a philosophy and practice of non-violent resistance, has the powert 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 we apon of truth and non-violence rarely fails provided it is used selflessly in public inter-est. Satyagraha become Duragraha if it is used as blackmail.

- () Satyagraha has time and again proved a powerful tool to fight for a just cause
- (r) Satyagraha is a battle which is sure to win over the opponents.
- (r) Unfail demands through Satyagraha amount to blackmailing and are anti to the spirit of Satyagraha.
- (٤) The success of Satyagraha depends on the integrity، morality and uprightnes of the person as well as the fairness of the cause.

- For long, sociologists have warned of the dire consequences of an increasingly skewed sex ratio. Afalling 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 girs indoors out of fear of their protection. In the long run all the gains made in push, ing for greater female literacy and empowerment could
 - (1) The indiscriminate female foeticide has a potential to create an imbalance in be undone our society and can push women empowerment backwards.
 - (r) The imbalance in male and female ratio can give rise to more crimes against women.
 - (r) Deficit in female population can lead to defunct family system.
 - (٤) Skewed male female sex ratio has a potential to reduce women's statue in society.

Intelligence & Critical Reasoning

Directions $(Qs. \epsilon) - \epsilon r)$: 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 answer as in I follows

(r) if conclusion II follows

(r) if neither conclusion follows

(٤) if both conclusions follow

٤١. Statement:

India has great potential for consumer products. Conclusions:

I. Inflation is curbing demand for consumer products.

II. Avery large population of the country has a great appetite for consumer products.

٤٢. Statement:

Introduction of computers and networking revolutionised banking serv ces. Conclusions:

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

٤٣. Statement: Productivity of Indian agriculture i Conclusions: I. Indian agriculture is largely dep II. Indian farmers have not introd	
Directions (Qs . ٤٤ – ٤٦)؛ Read the followi I . P ، Q ، R ، S ، Tand U are the six me	ng information to answer these questions . embers of a family ate، one Engineer، one Teacher، one Studer m. s in the family. er of P. R. Housewife.
٤٤. Which of the following statements is	s definitely trues
(1) U is father of the Engineer	-
(r) Tis father of the Teacher	
٤٥. How many female members are the	
()) Three only	(r) Two or three
(r) Two only	(٤) Three or four
٤٦. How is Prelated to S	
()) Either grand daughter or grand	son Grand mother
(r) Grand son	(٤) Grand daughter
Directions (Qs. $\epsilon v - \epsilon q$): Read the following	ng information to answer these questions.
	nd N are a married couple while K is the
while other members are non – work doctor and the husband of S is a teacher P. Q and K are associated with the prof	e four housewives and four working husban king . The husband in the last generation i er . Lis a married woman but her husband is n fession of engineer and accountant but K is n nd both have a sister O . N is the daughter of l

and X is the mother of P.

٤v.The family co	onsists of how mar	ny generations		
())7	(٢) ١	(٣) ٤	(٤) ٢	
٤٨. Who is the h	usband of Ss			
())T	(Y) K	(٣) L	(٤) P	
٤٩. Which of the	following stateme	ents is not trues		
()) Husban	d of X is an engine	er.		
(Y) Second	generation memb	ers are S، P، Tanc	1O.	
(٣) The num	ber of female me	mbers in the fami	ly is ∘.	
(٤) The acco	ountant and his wi	fe belong to the 🛙	thgeneration.	
Directions (Qs.	$\circ \cdot - \circ \tau$): Read the fo	ollowing informat	ion to answer these	questi
_	ans Pis mother of	-		
_	ans Pis sister of Q .			
_	eans Pis father of (-		
IV. P 🎧 Q m	neans Pis brother	of Q .		
۰. Which of the	following means	D is definitely dau	ghter of As	
(1)A\$ B 🕋 C	D	(٢) C ΨA\$ [Ο εΒ (ξ)	
(٣) AΨC \$ B	εD	ΒΨΑ\$ Ϲ	D	
٥١. Which of the	following means	R is brother of T _S		
(1) R ΨS 🎆	U \$ T	(٢) U ΨR 🏨	S 🙀 T	
(٣) U ΨR εS	T	(٤) K 🔬 R \$	SεT	
٥٢.Which of the	following means,	Ais nephew of Cs		
()) D 💮 C \$	Β 🙀 ΑεΕ	(٢) A 🛞 B \$	D εE \$ C	
(٣) C 🛞 D \$ I	3 🚕 A 🖇 E	(ξ) Β ΨE 🎆	C \$ ΕεΑ	
Directions (Qs.	٥٣ – ٥٥): Read the fo	ollowing informat	ion to answer these	questic
	a family G، H، I، J، ineer، but not in t		Intant، Clerk، Lawye	r، Jewe
	the grandfather of		untant.	
	married to G.			
·				

III. I, who is a Jeweller, is married to the Lawyer.

 ${\rm IV}_{\cdot}$ H is the mother of Land K $_{\cdot}$

V. There are two married couples in the family.

or. What is the profession of Ks (1) **Doctor** (Y) Clerk (r) Engineer (E) Accountant ο ٤. How many male members are there in the familys () Two (Y) Three (1) Cannot be determined (٣) Four **How is G related to K**s () Wife (Y) Father (r) Grandmother (٤) Grandfather Directions (Qs. $o_7 - o_A$): Read the following information to answer these questions.

There are six children playing football namely $G_i H_i I_i J_i K$ and $L_i G$ and K are brothers. Lis the only sister of $K_i I$ is the only son of G's uncle. H and J are the daughters of the brother of I's father.

مت. How is J related to Gs

	()) Sister	(Y) Niece	۲) Cousin	(٤) Uncle			
٥٧.	How is I related to	Ls					
	()) Cousin	(Y) Son	۲) Uncle	(٤) Brother			
٥٨.٢	۰۸. How many male players are there						

(1) One (1) Three (1) Four (2) Five

Direction (Qs. on -1): In each of these questions, two statements I and II are given. These may have a cause and effect relationship or may have independent causes or be the effects of independent causes. Read the statement **I** is its effect.

(r) if statement II is the cause and statement I is its effect.

(r) if both the statements I and II are effects of independent causes.

 $(\mathfrak{s}) \text{ if both the statements I and II are effects of some common cause}\,.$

os. Statement I: Drinking tea has a number of health benefits. Acup of the beverage can help slash the risk of developing cancer by shrinking tumours. Statement II: The new research has shown that black tea could help prevent cancer. The compound Theaflavin-r which has antioxidant properties reduces the risk of some cancers as well as heart disease.

- Statement I: India has lost a staggering \$ £33 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 £+7 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. Statement I: Not a single Indian University. including the IITs. has fared well in an all-Asian varsity ranking for the year x+11. IIT- Bombay is the only one to figure in the
- World top Y++ at YAY, lower than the previous year's rank of YAY. Statement II: Auniversity founded merely two decades ago- the Hong Kong University of Science and Technology- has topped the charts. The university of Cambridge got a perfect Y++. All the seven old IITs have made it to the Asian University ranking, but their ranks have slid.

Directions (Qs. $\tau r - \tau o$): Each of these question consists of a pair of words bearing a certain relationship. From amongst the given alternatives, pick up the pair that be illustrates a similar relationship.

זי. Presumption: Certainty

()) Falsehood : Truth	(r) Hearsay : Authenticity
(r) Theorem : Proof	(٤) Hunch : Guess
۲۳.Coal : Thermal	
(1) Power : Energy	(٢) Bulb : Light
(٣) Air : Atmosphere	(٤) Water : Hydel
۲٤. Court : Justice	
()) Police : Crime	(Y) Teacher : Study
(r) Doctor : Sickness	(٤) Auditor : Accuracy
۲۰.Relaxation : Work	
()) Play : Cheat	(Y) Lunch : Dinner
(٣) Smile : Laugh	(٤) Fresh : Stale

	ection (Qs. זי -v•):	•	series by replacir	ng the 's'	
٦٦.	Β•R، Ε۳U، G۹Υ, J				
	(1) Er•P		(٣) L٣·J	(٤) GrrU	
٦٧.	Avra, Grer, s, Sa,				
	(1) L18		(٣) Q 1 · ·	(E) M 180	
٦٨.	Q T U Σ X Y O		_		
	(1)Z110D		(י י) BיזיD	(٤) B٦٦٤F	
٦٩.	RL11, TQ1, WU*				
	(1) EZ ٦٨		(٣) GZ٦٨	(٤) HZ٦٨	
٧•.	VτR. ΥλΤ. ΒιοV. Ε				
			(r) Hr00B		
۷۱.	How is the son-ir	n-law of my wife	e's only sister rela	ted to my wife's brothe	r٩
	()) Cousin		(T) Nephew		
	۲) Uncle		(٤) Brother-in	n-law	
٧٢.	'B'، the son of 'A' the brother of 'B'			r 'D' was married to 'E'.	If E is
	()) Sister		(۲) Daughter		
	(۳) Daughter-in-l	law	(٤) Cousin		
٧٣.		he father of San		e sister – in – law of Ahs other of Ahsaan . How i	
	())Wife		(Y) Aunt		
	(۳) Mother – in – la	aw	(٤) Mother		
٧٤.	•			ck، its minute-hand p our-hand point at १: ७०	
	()) West	(Y) South	(۳) North	(٤) East	
۷٥.	turns to the left a	and cycles ^ km	, then he turns to	km towards North – Ea wards South – East and house . In which directio	cycles
	()) South		(۲) South – Eas	st	
	(۳) West		(٤) North – We	est	

vt. Mahender walked rr metres towards east. took a right turn and walked another rr metres. He again took a left turn and moved rr metres. In which direction is he now from the starting points

(1) North – East (1) East (1) South – East (2) South Directions (Qs. vv = A +): Each of these questions has an assertion (A) and a reason (R). Mark answer as-

()) if both 'A' and 'R' are true and 'R' is the correct explanation of 'A'.

(τ) if both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'.

(r) if 'A' is true but 'R' is false.

 (ϵ) if 'A' is false but 'R' is true.

vv. 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.

vA. Assertion (A): The screening of film 'ABC' has been stopped due to a High Court order.

 $Reason\,(R)\,:\,People\,abide\,by\,the\,decisions\,of\,the\,High\,Court\,.$

Assertion (A): Residents of 'XYZ' colony in Delhi are agitating against the irregular and inadequate water supply in their colony. Reason (B): Agitation is a basic right of people to get the water supply for the

Reason (R): Agitation is a basic right of people to get the water supply for their survival.

Assertion (A): Astudent 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

AN. Aand B can separately do a piece of work in ۲۰ and ۲۰ days، respectively. They worked together for ۲ days، after which B was replaced by C. If the work was finished in the next ٤ days، then the number of days in which C alone could do the work will be

(1) 1. days (1) 2. days (1) 10 days (2) 1. days

Aγ. B can do a piece of work in τ hours. B and C together can do it in ε hours. and A, B and C together in $\sqrt[n]{1}$ hours. In how many hours can Aand B together do the same piece of works (1) 11 hours {ĭ},⊉⊕v bour (٣) ۲ [°] hours $_{\Lambda \mathfrak{m}_{\cdot}}$ X can do \int_{\cdot}^{0} of a work in $\iota \cdot$ days. Ycan do $\iota \cdot \chi$ of the work in ι days and Z can do do of the work in we days. Who will complete of work firsts (\mathfrak{L}) X & Z both (\mathbf{x}) $(\mathbf{Y})\mathbf{Y}$ (٣)Z Az. Acan do a piece of work in v days of hours each where as B can do the same work in a days of v hours each. How long will they take to do the work together, working hours a days (r) r days (r) $\Gamma \square_{V}^{1}$ days (ε) $\varepsilon \square^{r}$ days (1) r days No. When opercent is lost in grinding wheat a country has to import to million bags to make up of the loss. But when only γ percent is lost, it has to import $\gamma \circ$ million bags. What is the quantity of wheat which grows in the country in million bagss (1) 187 [], (1) 10. (7) 1.1 [], (2) 1.1 [] ۸٦. In a consumer preferences survey، ۲۰٪ respondents opted for product A whereas vy/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 vr., how many individuals had been interviewed for the surveys (1) 122. (1) 11... (٤) Data inadequate (٣) ٣٦.. AV. Gauri went to the stationers and bought items worth Rs. Yo. out of which ropaise went on sales tax on taxable purchases. If the tax rate was π , then what was the cost of the tax-free items (1) **Rs**. 10 (Y) RS. 10. V• (Ψ) RS. 19. V• (٤) RS. Y•

 A4. Abag contains ε five rupee coins. r two rupee coins and r one ruper coins. If τ coins are drawn from the bag at random, what are the odd in favour of the draw yielding maximum amounts: (1) 1 : V · (1) 1 : T ·					
 A4. Abag contains ε five rupee coins. r two rupee coins and r one rupe coins. If τ coins are drawn from the bag at random. what are the odd in favour of the draw yielding maximum amounts: (1) 1: Y• (1) 1: Y• (1) 1: T• 	۸۸.	۰۰٪ more and ک	Z had $v \cdot \chi$ less. If	he tore out o%. \.;	د and ۱۰٪ of pages in X،
coins. If τ coins are drawn from the bag at random, what are the odd in favour of the draw yielding maximum amounts (i)) $\tau \cdot \tau$ (f) $\tau \cdot \tau$ (f) $\tau \cdot \tau$ (f) $\tau \cdot \tau$ (f) $\tau \cdot \tau$ varun throw two unbiased dice together and gets a sum of τ . If h friend Tarun then throws the same two dice, what is the probabilit that the sum is less than τ ? (i) Γ_{τ}^{1} (r)		(\) A'/.	(٢) ١٥%	(٣) ٧%	(٤) None of these
 Narun throw two unbiased dice together and gets a sum of v. If h friend Tarun then throws the same two dice, what is the probabilit that the sum is less than v? (i) ①¹₁ (r) ①^V₁ (r) ①¹₁ (s) ①⁰₁ In a factory where toys are manufactured, machines A. B and C prod ro/(and s./) of the total toys, respectively. Of their output, o//, s/, and respectively, are defective toys. If a toy drawn at random is found to be what is the probability that it is manufactured on machine B? (i) ①^V₁ (r) ①^V₁ (r) ①^V₁ (r) ①⁰₁ (s) None of these (i) ①^V₁ (r) ①^V₁ (r) ①^V₁ (r) ①^V₁ (s) None of these (i) ①^V₁ (f) (r) ①^V₁ (r) ①^V₁ (r) ①^V₁ (f) (r) (r) (r) (r) (r) (r) (r) (r) (r) (r	Λ٩.	coins. If τ coir	ns are drawn fror	n the bag at rando	om، what are the odds
friend Tarun then throws the same two dice. what is the probabilit that the sum is less than vs (i) $\begin{bmatrix} 1 \\ 1 \end{bmatrix}$ (r) $\begin{bmatrix} V \\ 1 \\ T \end{bmatrix}$ (r) $\begin{bmatrix} V \\ 1 \\ T \end{bmatrix}$ (r) $\begin{bmatrix} 1 \\ V \end{bmatrix}$ (r) $\begin{bmatrix} 1 \\ Y \end{bmatrix}$ (r) ((1)1:V•	(٢) ١ : ٦٩	(٣) ٦٩ : ٧•	(£) V• : N
 (1) In a factory where toys are manufactured a machines A. B and C prod rog and ε.g of the total toys, respectively. Of their output, og, egand respectively, are defective toys. If a toy drawn at random is found to be what is the probability that it is manufactured on machine B? (1) If (x) (x) If (x) (x) If (x) (x) If (x) (x) (x) (x) (x) (x) (x) (x) (x) (x)	۹•.	friend Tarun t that the sum is	then throws the	same two dice. v	what is the probability
 In a factory where toys are manufactured, machines A, B and C prod ro% and ε+% of the total toys, respectively. Of their output, o%, ε% and respectively, are defective toys. If a toy drawn at random is found to be what is the probability that it is manufactured on machine B? (1) □ V (r) □ A (r) □ □		()) []	(Y) []V	(٣) []'	(£) []°
TqTqTqTq $\mathfrak{q}\mathfrak{r}$ Aand B alternately throw a pair of dice. Awins if he throws \mathfrak{r} before B th $\mathfrak{v}_{\mathfrak{s}}$ and B wins if he throws \mathfrak{v} before Athrows \mathfrak{r} . What are their respective of winning, if Athrows the dice firsts: $(\mathfrak{r}) \begin{bmatrix} \mathfrak{l} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \end{bmatrix} \begin{bmatrix} \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \\ \mathfrak{r} \end{bmatrix} \end{bmatrix} \begin{bmatrix} $		۳٥٪ and ٤٠٪ of t respectively، a	the total toys ، re are defective toys	spectively. Of the . If a toy drawn at i	eir output ، ه٪ ، ٤٪ and ۲٪ random is found to be defe
v: and B wins if he throws v before Athrows v. What are their respective of winning, if Athrows the dice firsts $(1) \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix}$ $(1) \begin{bmatrix} 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \end{bmatrix}$ $(1) \begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 &$			(Y) [] ^{Y /} 79}	(٣) 🖞 ° ٦٩	(٤) None of these
(r) $\begin{bmatrix} r \\ 1 \\ 1 \end{bmatrix}$, $\begin{bmatrix} s \\ 1 \\ 1 \end{bmatrix}$, $\begin{bmatrix} s \\ 1 \\ 1 \end{bmatrix}$, $\begin{bmatrix} r \\ 1 \end{bmatrix}$, $\begin{bmatrix}$	٩٢.	v_{S} and B wins if	f he throws v befo	ore Athrows ٦. Wha	
۲۱ ۲۱ ۹۳. What will be the ratio of simple interest earned by a certain amount at rate of interest for ٦ years and ٩ years? (۱) ۱ : ۳ (۲) ۱ : ٤		$(1) \square \overset{(1)}{\overset{(1)}{}} , \qquad (1) \square \overset{(1)}{\overset{(1)}{\overset{(1)}{}} , \qquad (1) \square \overset{(1)}{\overset{(1)}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}$		(۲) [] ^ψ · , [] ^ψ · , ' ' ' '	
rate of interest for a years and a years?		(*) [^{**)} , [[*]] (*) てい てい		$(\varepsilon) \stackrel{T^{T}A}{\underset{T}{\overset{T}}}, \stackrel{T^{T}}{\underset{T}{\overset{T}}}$	
	۹٣.		•		y a certain amount at the s
(٣) ٢ : ٣ (٤) Data inadequate		(1)1:٣		(٢) ١ : ٤	
		(٣) ٢ : ٣		(٤) Data inade	equate
An automobile financier claims to be lending money at simple interest includes the interest every six months for calculating the principal. If he charging an interest of V+%, the effective rate of interest becomes	٩٤.	includes the in	iterest every six n	nonths for calculat	ting the principal. If he is
					(٤) None of these

10.				
	would fetch Rs		nterest was payab	ears at ४०% per annum le half yearly than if it
	()) Rs .) • . • • •	(۲) Rs. ۲۰, ···	(٣) Rs . ٤٠، ٠٠٠	(٤) Rs. ۰۰، ۰۰۰
٦.	to pay a sum of	f Rs . १७६० at the en al annual installm	d of ٤ years . If the	n، and was supposed same sum is cleared rate، the amount of (٤) Rs. ۱۰۰۰
1.	ACircus tent is diameter of the	cylindrical to a he	eight of <code>r</code> m and co	onical above it . If the of the conical portion
	(1) / ٩٦• m	(४)	(٣) ٩٤٦ • M	(१) ٩٨٦• m
	If a man cycling	g along the bound	lary of the park at	tangular park is
	(1) 1027.	(1) 1027	(٣) ٣ • ٧ ٢ •	(٤) ٣•٧٢••
•				rea of a cube are equa f measurement will be
	(1)٣	(٢) ٤	(٣) ٥	(٤) ٦
• .		-	oad and \ cm thick irea of the two soli	is melted into a cube ds ، is
	(1) YAE CMY	(٢) ٢٩٦ CM٢	(٣) ٢٨٦ CM٢	(٤) ٣٠• CM۲
١.		many balls as C. I	if together they ha	ives ۲۰ balls to A، he is ad ۲۰ more balls، each
		have had www.balls	on an average. W	/hat is the ratio of x to
		have had ۱۰۰ balls (۲) ۲ : ۳	on an average. W (۳) ۲ : ۱	hat is the ratio of x to (٤) ۳ : ٤
• ٢ .	of them would $\chi_{\hat{N}}, \pi : \pi$ There are a to number of stu- three-fourth of What is the rat	۲) ۲ : ۳ otal of ٤٣٨٠٠ stuc udents of the firs of the third and fo tio of the number	(۳) ۲ : ۱ lents in ٤ school st school، two-th our-fifths of the	(٤)٣:٤ s of a city. Half the hirds of the second، fourth are all equal. to D، if A، B، C and D
۲.	of them would $\chi_{\hat{N}}, \pi : \pi$ There are a to number of stu- three-fourth of What is the rat	۲) ۲ : ۳ otal of ٤٣٨٠٠ stuc udents of the firs of the third and fo tio of the number	(۳) ۲ : ۱ lents in ٤ school st school، two-th our-fifths of the of students of At	(٤)٣:٤ s of a city. Half the hirds of the second، fourth are all equal. to D، if A، B، C and D
	of them would ∛s) 𝑘 : 𝑘 There are a to number of stu three-fourth of What is the rat be the first ase (۱) ∧ : 𝔅 Four numbers numbers is 𝔅 𝔅	(۲) ۲ : ۳ otal of ٤٣٨٠٠ stud udents of the firs of the third and fo tio of the number cond، third and fo (۲) ۱ : ۳ are in proportion	(۳) ۲ : ۱ lents in ٤ school st school، two-th our-fifths of the of students of Af ourth schools، re (۳) ۲ : ۳ n. The sum of the e mean is ٥. The ra	(٤)٣:٤ s of a city. Half the hirds of the second، fourth are all equal. to D، if A، B، C and D spectivelys

					-
۱•٤.	The concentrat	ion of petrol in t	hree different mi	xtures (of petrol and kei	osene) i
	$[]_{\mathcal{V}}, []_{\mathcal{V}}^{m}$ and $[]_{\mathcal{V}}^{m}$	respectively. If	r litres، ۳ litres and	d ۱ litre are taken from th	nese
	three different	vessels and mix	ed، what is the r	atio of petrol and keros	ene in th
	(1) E : 0	(1) ": 1	(٣) ٣ : ٥	(٤) ٢ : ٣	
١٠٥.	will be seated a	at a circular tabl		iness meeting ، where t erent arrangements are f the host CEO९	
	()) \ • • \ •	(٢) ١•٨••	(٣) ٩٢٠٠	(٤) ٤٦ • •	
۱۰٦.		-		flowers can be strung to cular flowers are always	
	(1) ٣•٢٤•	(7) * • ٤ 7 •	(٣) ٢٣٤ • •	(٤) None of these	
۱•۷.	them are engi	neers . Three are ways can the co	e managers and ،	a panel of v persons . Th one is both engineer an cted if it must have atle	d manag
	(1) ٣٣	(7) 77	(٣)))	(٤) ٦٦	
۱۰۸.	includes ٤ bowl	ers and v wicket	-keepers . In how	om a pool of את players many different ways ca s and wicketkeepers	
	(1) TEVT	(7) 7775	(٣) ٢ ٤ ٢ ٧	(٤) ١٢٣٦	
۱۰۹.	alcohol to wate given mixture alcohol to wat	er is ۳ : ٤ and in tl es and makes a er is ٤ : ٥، the qu	he second mixtur third mixture of	In the first mixture the e it is • : ٦. If he mixes th ১٨ litres in which the ra t mixture (whose ratio is d of mixture is	e two atio of
	())7	(Y) V	(٣) ٨	(٤) ٩	
۱۱۰.	۲۰٪. The averag ۱۰٪، ۲۲٪ and ۸۰٪ sections Aand	ge marks of the ۲۰۰۰ respectively ا B together is ۲۸۷	students of A، B، f the average mai and that of the st	ons A، B، C and D of a so C and D individually are rks of the students of udents of B and C toget in sections Aand Ds	٤٥%،
	(1)7:5	(٢) ٤ : ٣	(٣) 0 : ٣	(٤)٣:0	

))).	Two casks of $\mathfrak{s} \wedge \mathfrak{litres}$ and $\mathfrak{s} \mathfrak{r} \mathfrak{litres}$ water \mathfrak{s} the proportions in the two $\mathfrak{s} \wedge \mathfrak{s} \mathfrak{s} \vee \mathfrak{s}$. If the contents of the two c be added to the whole \mathfrak{s} what will in the resulting mixtures.	o casks being resp asks be mixed، ai	ectively، ۱۳۰۰ v and nd ۲۰ litres of water	
117.	Two companies Aand B quote for a A realises that the two quotes are its price during negotiations to ma price. B then realises that the final ٤. By how much did Adecrease its p	in the ratio v : ٤ ar ake it Rs . ١ lakh lov quotes of the two	nd hence decreases ver than B's quoted were in the ratio r :	
	() Rs.vLakhs	۲) Rs. ٤ lakhs		
	(r) Rs. a lakhs	(٤) None of these		
۱۱۳.	To fill a certain tank، pipes A، B and minutes respectively . If the three ا long will it take to fill the tanks			ute، hc
	(۱) • minutes (۲) ۱ • minutes	(٣) \r minutes	(٤) ۱٥ minutes	
112.	Abath can be filled by the cold water minutes respectively. Aperson leave simultaneously and returns at the re however, that the waste pipe has minutes more the bath is full. In ho full bath, if it alone is openeds	ves the bathroom noment when the been open ، he th	after turning on bot bath should be full nen closes it . In exa	h pipes Finding ctly fou
	(1) 4 minutes	(۲) ۱۰ minutes		
	(٣) \r minutes	(٤) None of these		
110.	A، B and C are three pipes attached and ۳۰ minutes respectively، while be kept open successively for ۱ min	C can empty it in	ه minutes. If A، B a	nd C
	()) NA• minutes ()) T• minutes	(۳) ۱۵۷ minutes	(٤) ١٥٥ minutes	
۱۱٦.	Two taps can separately full a cister If these two pipes and a waste pipe filled in waminutes. The waste pipe	are kept open sim	ultaneously, the cis	
	()) v minutes	(۲) ۱۳ minutes		
	(r) rr minutes	(E) A minutes		

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 110° Raghu travelled 110° km by air which formed 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 (r) 1A··· km (٤) ٤٨• km (1) 17. km (\mathbf{y}) $\mathbf{h} \mathbf{h} \mathbf{k} \mathbf{m}$ 11 Aman has to cover a distance of 1 km in 20 minutes. If he covers one-half bf the distance in ^{TD} rd time, what should be his speed to cover the remaining distance in the remaining times ()) γ km/h (Y)) 7 km/h (٣) **r km** /h $(\varepsilon) \wedge km/h$ 114. Aman starts cycling from Ato B and at the same time, another man starts cycling from B to Aalong the same path . They completed their journeys in $\sqrt{2}$ and $\tau \prod_{i=1}^{n}$ hours, respectively. At what speed has the second man cycled if the first cycles at vakm /hs (1) \^ () 长阳/历 (\) \ \ [] km /h (2) 18 [] 2 (٣) \\ [] \ km/h respectively. How many km apart will they be at the end of mours if they are walking in the same directions $(1) \in \Box_{\ell}^{\vee} km$ $(1) \circ \Box_{\ell}^{\vee} km$ $(1) \in \Box_{\ell}^{\vee} km$ $(1) \in \Box_{\ell}^{\vee} km$ $(1) \in \Box_{\ell}^{\vee} km$ **ANSWFRS** 1-Y: Y-E: W-1: E-E: 0-Y: 7-E: V-Y: A-Y: 9-E: 1.-1: 1Y-Y: 1W-1: 1E-Y: 10-Y: 17 Y: IV-Y: IA-W: I9-I: Y·-W: YI-Y: YY-E: YW-E: YE-W: YO-E: YI-Y: YV-I: YA-W: Y9-I: W· **W**3-Y: WY-W: WW-E: WE-E: WO-E: W7-E: WV-W: WA-W: W9-E: E·-Y: E1-Y: EY-1: EW-E: EE-1: $\xi 0 - \gamma : \xi \gamma - \gamma : \xi N - \xi : \xi 9 - \xi : 0 \cdot - \gamma : 0 \gamma - \gamma : 0 \gamma - \gamma : 0 \xi - \xi : 0 0 - \xi : 0 \gamma - \gamma : 0 N - \gamma : 0 N$ 09-r: 1.-r: 11-E: 11-E: 17-r: 18-r: 10-E: 11-r: 18-r: Son-in-law: vr-r: vr-E: vE-E: vo-E: vi-r: vv-1: vA-1: va-1: A·-r. A1-r: Ar-E: Ar-r: AE-Y: A0-E: AI-Y: AV-Y: AA-E: A9-Y: 9*-E: 91-Y: 9Y-Y: 9X-Y: 9E-Y: 90-Y: 91-1: ٩٧-٣ : ٩٨-٢ : ٩٩-٤ : ١••-٣ : ١•١-٢ : ١•٢-١ : ١•٣-٣ : ١•٤-٢ : ١•٥-١ : ١•٦-١ : ١•٧-١ : ١•٨-١ : $1 \cdot 9 - 1 \cdot 11 - 1 \cdot 111 - 1 \cdot 111 - 1 \cdot 111 - 1 \cdot 111 - 1 \cdot 112 - 1 \cdot 112$