MAT Solved Paper - Feb 2008

Dire	ctions (Q. 1-20): Answer the question independent of eacl	1 A boy goes to see a film and finds a man who is his relative.
	other. In a certain code ROAD is written as URDG.	The man is the husband of the sister of his mother. How is
1.	How is SWAN	the man related to the boy?
	written in that code?	(a) Brother (b) Nephew
		(c) Uncle (d) None of these
2	(d) VZCQ Which of the following will come in place of the question	I am facing west. I turn 45° in the clockwise direction and
2.	mark(?) in the following sequence?	then 180° in the same direction and then 270° anticlockwise.
	6C7,8F10, 11J14, 15O19,?	Which direction am I facing now?
	(a) 25U20 (b) 20U25	(a) South-West (b) South
	(c) 20U24 (d) 19U25	(c) West (d) North-west
3.	Ram walks 10m South from his house, turns left and walks	$\beta \beta a$ month of 31 days, the third Wednesday falls on the
	m, again turns left and walks 40 m, then turns right and wa	al £§ th. What will be the last day of that month?
	$5\ \mathrm{m}$ to reach his school. In which direction is the school from	(a)Fifth Thursday (b) Fifth Wednesday
	his house?	(c) Fourth Sunday (d) Fifth Friday
	(a) Elast 15.	When Ranieev was born, his father was 32 years older than
	(d) Stouth-West	his brother and his mother was 25 years older than his sister. If Ranjeev's brother is 6 years older than Ranjeev and his
4.	In table is called <i>chall</i> , <i>chall</i> is called <i>col</i> , <i>col</i> is called p and not is called <i>filter</i> , where does a person sit?	If Ranjeev's brother is 6 years older than Ranjeev and his
	and <i>pot</i> is called <i>filter</i> , where does a person sit? (a pot (b cot	mother is 3 years younger than his father, how old was
	(a pot (b cot) chair) filter	Ranjeev's sister when he was born?
5.	(Outf-hand is related to RERFUNCTORY, in the same way as	(a 15 years (b) 4
0.	above, Board is related to) 7 years (d) years
	(a) Guide (b) Honesty 16.	(a a party everyone gave algift to everyone else. If the
	(c) Integrity (d) Competition)otal number of gifts excharged in the party was 600,
6.	In a class of 35 students, Kiran is placed 7th from the bottom	
	whereas Mohan is placed 9th from the top. Sohan is placed	(a) 20 (b) 15
	exactly in between Kiran and Mohan. What is Kiran's	(c) 10 (d) 25
	position from Sohan?	After a get-together every person present shakes the
	(a) 13t (b) 11th	hand of every other person. If there were 105
_	(c) h (d) 9th	handshakes in all, how many persons were present
7.	If the 9 becond, third, fifth, eighth and ninth letters of the	(a)the sparty? (b) 1
	wordh CONTEMPLATION are combined to form a meaningful	(c) 13 (d) 4
	word, what will be the middle letter of the word? If more 18.	
	than	circle. Shankar was on the 6 ight of Ram and Gopal was
	Given shuch word can be porred, your answer is X and	on the left of Arvind. Which of the following pairs were
	\hat{f} no such words can \hat{b} formed your answer is X and \hat{f}	(martrile as and Shankar(b) Gopal and Shankar
8.	Rointing to a photograph Arun said, 'She is the mother) Ram and Arvind (d) Gopal and Ram
	bf 19.	Four girls (G1, G2, G3, G4) and three boys (B1, B2, B3) are to
	my brother's son's wife's daughter.' How is Arun	sit for a dinner such that no two boys should sit together
	(alatebroethe lady? (b) Daughter-in-law	nor two girls. If they are successively sitting, what is the
~) Cousin (d) None of these	position of B2 and G3?
9.	Which one is different from the remaining three?	(a) 5th and 6th (b) 4th and 5th
	(a) (C) JAHBCD is relate(b) (DOOBE) R in the same way as WXYCZEF @ elated to (d) ABCD	(c) 3rd and 4th (d) 2nd and 3rd
10.	(a) EFGH 20.	There are 30 plants of Chiku, Guava, Sitafal and Mango in a
10.	(c) KLMN	row. There is one pair of Mango plants after Chiku and Guava
	(b) STUV	and Mango plants are followed by one Chiku and one Sitafal
	(d) ORST	plant and so on. If the row begins with a plant of Chiku, then
11.	The letters skipped between adjacent letters are the or	der of der of the following will be the last in the row?
		(a) Guava (b) Mango
	(a) DEIMR (b)DFINR	(c) Chiku (d) Sitafal
	(c) DFIMR (d) DFIMS	

21. The angles of elevation of the top of a tower, from the 28. At a college entrance examination each candidate is admitted or rejected according to whether he has top and the foot of a pole of height 10 m, are 30° and passed or failed the tests. Of the candidates who are 60° respectively. The height of the tower is really capable, 80% pass the tests and of the (a 20 (b) 15m incapable, 25% pass the tests. Given that 40% of the (d) None of these m) candidates are really capable, then the proportion of 22. Ac pellson standing on the bank of a river finds that the angle (ba)pa0% college students is about of elevation of the top of a tower on the opposite bank is (d) 7538% 45°. Then which of the following statements is correct? 29. (n an62% amination, there were 2000 candidates, out of which 900 candidates were boys and the rest were girls. 1f 32% of (a) The breadth of the river is half of the height of the the boys and 38% of the girls passed, then the total tower. percentage of failed candidates is (b) The breadth of the river and the height of the tower are (a) 68.5% (b) 64.7% the same. (c) 35.3% (d) 70% (c) The breadth of the river is twice the height of the towgo. From the salary of an officer, 10% is deducted as (d) None of these house rent, 15% of the rest he spends on children's 23. A person standing on the bank of a river observes that the education and 10% of the balance he spends on angle of elevation of the top of a tree on the opposite bank clothes. After this expenditure he is left with Rs 1377. of the river is 60° and when he walks 40 metres away from (+sis sRaba&1030 (b) Rs the tree the angle of elevation becomes 30°. The breadth of Rs 2000 (d) 2040) 31 (for the price of gold increations by 30%, find by how the river is)much the quantity of ornal 22001s must be reduced so (a) 20 m (b) 30 m that the expenditure may remain the same as before. (d) 60 m (c) 40 m 24. A class consists of 100 students; 25 of them are girls and 75 (b)23 $\frac{1}{13}$ % (a) 30% boys; 20 of them are rich and the remaining poor; 40 of them

> 27<u>2</u>% 13 (d)19% (C)

A monthly return railway ticket costs 25 per cent more than 32 a single ticket. A week's extension can be had for the former by paying 5 per cent of the monthly ticket's cost. If the money paid for the monthly ticket (with extension) is Rs 84, the price of the single ticket is

(a)	Rs 64	(b) Rs 80

(C)	Rs 48	(d) Rs 72

33. A papaya tree was planted 2 years ago. It increases at the rate of 20% every year. If at present, the height of the tree is 540 cm, what was its height when the tree was planted?

(a)	400 cm	(b)	375 cm
(C)	324 cm	(d)	432 cm

A mixture of 40 litres of milk and water contains 10% water. be 20% in the new mixture?

(a)	6.5 litres	(b)	5.5 litres
(C)	4 litres	(d)	5 litres

The amount of water (in ml) that should be added to reduce 9 ml lotion, containing 50% alcohol, to a lotion containing 30% alcohol, is

(b) 4 ml (a) 5 ml

d) 6	ml
(d) 6

The average of marks obtained by 120 candidates was 35. If 36. the average of the passed candidates was 39 and that of the failed candidates was 15, then the number of those candidates who passed the examination, was

(a)	120	(b)	110

(c) 100 (c) 150

are fair-complexioned. The probability of selecting a faircomplexioned rich girl is

(a)	0.05	(b)	0.04
(C)	0.02	(d)	0.08

A box contains 5 brown and 4 white socks. A man 25. two socks. The probability that they are of the same

colour 5 is (a)<u>-</u> 18 5 (d) (C) 108

26. India plays two matches each with West Indies and Australia. In any match the probabilities of India getting points 0, $\frac{1}{2}$ and 2 are 0.45, 0.05 and 0.50 respectively. Assuming that the How much water should be added to this so that water may outcomes are independent, the probability of India getting at least 7 points is

(a)	0.0624	(b)	0.0875
(C)	0.8750	(d)	0.0250

35 27. Out of 13 applications for a job, there are 5 women and 8 men. It is desired to select 2 persons for the job. The probability that at least one of the selected persons will be a woman is

(a)	$\frac{5}{13}$	(b) ¹⁴ / <u>39</u>
	25	10

 $(b)_{\overline{13}}$ 39

37. Angad was conducting an experiment in which the average of 11 observations came to be 90, while the average of first five observations was 87, and that of the last five was 84. What is the measure of the 6th observation?

(a) 145	(b) 150

(c) 165 (d) 135

The average age of an adult class is 40 years. 12 new 38. students with an average age of 32 years join the class, thereby decreasing the average by 4 years. The original strength of the class was

- (a) 12 (b) 11
- (d) 15 (c) 10

39. The average age of 8 persons in a committee is increased by 2 years when two men aged 35 years and 45 years are substituted by two women. The average age of these two₄₇. women is

- (a 52 (b) 56
- (d) years years) At Namada Sarovar Bachad (NSB) demonstration, 40. supporters of Ms Patkar overall should be police by 9:48

The police arrested 135 NSB supporters averaging 5 for everybranch of Bank M. 3 policemen. How many supporters of NSB were there in the demonstration?

- (a) 1215 (b) 665
- (c) 405 (d) None of the above
- Directions (Qs. 41-44): Study the following information to answer these questions

these questions.

A blacksmith has five iron articles A, B, C, D and E, each having a different weight.

- (i) A weighs twice as much as B.
- (ii) B weighs four and- a-half times as much as C.
- (iii)C weighs half as much as D.
- (iv)D weighs half as much as E.
- (v) E weighs less than A but more than C.
- 41. Which of the following is the lightest in weight?
 - (a) C (b) B
 - (d) D (c) A
- 42. E is lighter in weight than which of the other two articles?
 - (a) A, C (b) D.C (c) A, B (d) D, B
- 43. E is heavier than which of the following two articles?
 - (b) D, C (a) A, C
- (c) D, B (d) A, B 44. Which of the following articles is the heaviest in weight? (a) C (b) B
 - (c) A (d) D

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meet was fixed.

Directions (Qs. 45-48) : Given below are pairs of events I and II. would win the race.

Read both the events and decide the relationship. Assume_thatRbp's coach had cautioned him not to expect to do as wel1 information given is true in deciding the answer. Mark answer as he had in past races. as

- (a) if I is an effect but II is not its immediate and principal 3^{1} . cause. 52.
- (b) if I is the immediate and principal cause and II is its effect.

- (c) if I is an effect and II is its immediate and principal
- (d cause.
-) if II is an effect but I is not its immediate and principal cause.
- 45. **Event (I):** The price of gold has gone up in the local market. Event (II): Indians have won several prizes in designing gold ornaments.

Event (I): Today, the prime ministers of countries P and Q have decided to take steps to improve bilateral relations. Event (II): Next week a committee of foreign ministers and senior officers of country P and Q will work out further steps to improve the relationship.

Event (I): Recently the prices of the personal computers (PCs) have come down.

Event (II): Some school-children are showing keen interest in learning computers.

Event (I): This year Bank M has celebrated its silver jubilee.

Event (II): More customers are getting attracted to the market

Directions (Qs. 49-52): A situation and the outcome are present Four statements follow thereafter. Each statement is to be

(a) if the statement is deducible from the situation the outcome or both together.

(b) if the statement presents a possible adequate explanation of the outcome.

(c) if the statement is inconsistent with, or contradicts, the situation, the outcome, or both together.

(d) if the statement does not support a possible explanation of the outcome.

Situation: Abhijit Roy is training for a national swimming meet. His event is 800m freestyle. In winning the last five races, his time has never exceeded 8 minutes. His practice performances, in which he studiously attempts to duplicate all actual racing conditions, have been better. He is a strong favourite among local sportswriters to win the meet, and his coach Prabhu Dayal predicts that he will win in record time. Speed Swimming Gear, in the hope of capitalising on his upcoming victory, has persuaded Roy to be photographed with their goggles, which he always wears in competition. Outcome: Roy clocks his worst time ever and finishes fourth.

The Speed Swimming Gear company was confident that Roy

After the race, several swimmers complained about the high

It was revealed after the race that the national swimming

chlorine content of the water in the pool.

Directions (Qs. 53-56): Each question has a statement followed by two assumptions /conclusions. Find the implicit assumption(s)/ conclusion(s).

53. Statement:

A good system of education in a country is the flower of economic development; it is also its seed. **Assumptions:**

1. Economic development leads to educational development in a country.

II. Educational development leads to economic development in a country.

- (a) Both I and II are implicit
- (b) Only II is implicit
- (c) Only I is implicit
- (d) Neither I nor II is implicit

54. Statement:

There is one thing as important as studying and that is how much is understood.

Assumptions:

- I. Studying and understanding go hand in hand.
- II. Understanding is as important as studying.
- (a) Both I and II are implicit
- (b) Only II is implicit
- (c) Only I is implicit
- (d) Neither I nor II is implicit

Statement:

- 55. All birds are dogs and some dogs are cats. **Conclusions:**
 - I. Some cats are not dogs.
 - II. All dogs are not birds.
 - (a) Both I and II are implicit
 - (b) Only II is implicit
 - (c) Only I is implicit
 - (d) Neither I nor II is implicit

56. Statement:

There are many Indians who are honest. Mohan is an Indian. neither cheap nor comfortable. **Conclusions:** (d)Many people desire conver

- I. Mohan is honest.
- II. Mohan is not honest.
- (a) Both I and II are implicit
- (b) Only II is implicit
- (c) Only I is implicit
- (d) Neither I nor II is implicit

Directions (Qs. 57-60): Attempt these questions based on the information given against each.

57. In order to qualify in an examination having 6 subjects, a student has to get at least 50% and above marks separately in any 4 subjects and 35% and above in each of the 6 subjects(d If a total of 25% candidates have qualified in the examination, then which of the following is definitely true?

- (a) 50% of the students got 50% and above in 4 subjects but only half of them could get 35% and above in all the subjects.
- (b) 75% 'of the students could not get at least 35%
- (c) marks
- (d) in all the 6 subjects taken together.
 - 25% of the students have secured 50% and above in
 - all the 6 subjects.
- 58. "Cases of fact poisoning have base tenerted from village X. After a dinner party arranged for 100 people, 68 were admitted to the hospital, and 36 were reported to be out of and above marks in each of the subjects danger. The food, which was cooked and stored in an open space for almost 12 hours, was served after reheating. Investigation is going on."

A news report.

Which of the following can be hypothesised from the above information?

- (a) Cases of food-poisoning need to be handled carefully.
- . (b) Stale food is likely to be the cause of food-poison
- ing. Late-night dinner parties for a large number of people (c)
- result in food-poisoning.

(d) Cases of food-poisoning are not reported in urban dinner parties.

59. "If you want a hassle-free holiday package for city M, then join only our tour. Hurry up; only a few seats available" - An advertisement of XYZ Tourist Company.

If the above statement is true then which of the following has been assumed while making the statement?

(a) No seats may be available with other tour operators for city M.

(b) Nowadays people have a lot of money to spend on their comforts.

(c) Travel packages offered by other tour operators are neither cheap nor comfortable.

(d)Many people desire convenience and comfort while going for a holiday.

- 60. The State Government's agency 'Housewell' has constructed 500 flats for the middle class but inspite of a shortage of houses, it has not even received 100 applications. Which of the following, if true, could explain this?
 - (a) A private builder's scheme which has come up on the adjacent plot is overbooked in spite of higher cost and 100% advance payment.
 - (b The flats are not accessible either by bus or by train.
 -) The quality of construction of 'Housewell' is reported to be very poor.

The cost and conditions of payment are quite demanding and are slightly higher than the usual government housing schemes.

61.	What is 'Super 301'?	73.	The Planning Commission of India is
	(a A French news channel		(a) a constitutional body
) An American trade law		(b) an advisory body
	(b A British anti-aircraft missile		(c) a statutory body
) None of these		(d) an independent and autonomous body
62.	Who finally approves the draft five-year plans?	74.	What is the percentage of India's population with respect to
	(d		the World population?
	a) President		(a 26 per cent (b) 16 per
	(b) Planning Commission) 6 per cent (d) cent 36
	(c)Prime Minister	75.	(the novel which is not the werkenDrhan Pamuk, the
	(d) National Development Council		2006 Nobel laureate in Literature, is
63.	Which is India's largest private sector bank?		(a) Kar(Snow)
	(a) UTI Bank (b) ICICI Bank		(b)Istanbul Memories
	(c) HDFC Bank (d) IDBI Bank		(c) Kara Kitap (The Black Book)
64.	According to the UNCTAD report, India has acquired t	h ę e	(d) Hullabaloo in the Guava Orchard The Chairman of the National Development Council (NDC)
			is the
	2006.		(a) Minister of Information Technology
	(a) Fourth (b) Third		(b)Finance Minister
	(c) Second (d) Fifth		(c) Prime Minister
65.	For attaining 9% growth rate during 11th Plan, investme	ent	(d) Speaker of Lok Sabha
	level has been estimated to be	77.	The three core values of the Commonwealth Games
	(a) 30% of GDP (b)25% of GDP		movement are
	(c) 20% of GDP (d)35% of GDP		
66.	Central Government has declared 2007 as		(a) Equality, Brotherhood and Unity
	(a)Water year		(b) Humanity, Equality and Destiny
	(b) Sanitation year		(c) Humanity, Equality and Brotherhood
	(c) Poverty Alleviation year	78.	(d) Unity, Humanity and Equality
	(d) None of these	10.	Internet was developed upon which among the following operating systems? (a) LINUX (b)
67.	'Aero India 2001' was organised during February 2007		UNIX
	at		(c)Windows 98 (d)Sun Solaris
	(a) Kolkata (b) New Delhi	79.	Which among the following matches is incorrect?
	(c) Mumbai (d) Bangalore		(a)World Health Organisation (WHO) - Washington
68.	2007 is being celebrated as 'Friendship year' between I	ndia	
	and		(b) Food and Agriculture Organisation (FAO) - Rome
	I) Nepal (b) China		(c) International Telecommunication Union (ITU)
60	(c) Japan (d) Russia		(d) Geneva United Nations International Children's
69.	RBI holds equity in National Housing Bank	00	Funce(tote)togenerey New York
	l) 75% (b) 60% (c) 50% (d)100%	80.	The Secretary General of the United Nations is
70.	The National Stock Exchange functions from		(a) Ban Ki-Moon (b) Kofi Annan
70.	I) New Delhi (b) Kolkata		(c) Boutros Boutros-Ghali
	(c) Mumbai (d) Chennai		(d) None of these
71.	What is the purpose of the India Brand Equity Fund?		
		Dire	ections (Qs. 81-100) : Answer these questions based on the
	(a) To organise trade fairs	pas	sages.
			Passage I

Passage I

The Indian steel industry, in line with global trends, is at a crossroads, witnessing a resurgent phase of modernization, expansion and consolidation, mainly through mergers and acquisitions. A sector that was moribund just about five years ago because of a worldwide slump in steel prices, the industry has turned the corner and has in fact been vibrant over the past two years. Domestic steel companies, both public and private, are surging ahead on the strength of an unprecedented buoyancy in the economy and the resultant

(b) To promote in-bound tourism

(c)To make 'Made in India' a label of quality

(d) To provide venture capital to IT sector

debt, World Bank has classified India as a

72. On the basis of the size and composition of external

(c) less indebted country

(a) heavily indebted country

(d) severely indebted country

boom in real estate and various infrastructure sectors such as roads and highways, ports and airports. The official figures speak for themselves. Powered by an increased demand for steel from neighbouring China, which has been clocking a 15 per cent sectorial growth annually on account of construction projects in preparation for the Olympics, the steel industry in India has grown by about 10 per cent in the past two years, compared with the global growth rate of about 6 per cent a year. The country's production of crude steel in 2005-06 stood at 42.1 million tonnes, reflecting an increase of per cent over the previous fiscal. On the other hand, the consumption of steel during the year was pegged at 41.43 million tonnes, a massive growth of 13.88 per cent when compared with the 2004-05 figures. Likewise, the production of sponge iron also increased sharply by 25 per cent, from about 10.3 million tonnes in 2004-05 to 12.9 million tonnes in 2005-06. Currently, India is the largest sponge iron producer in the world and ranks seventh among steel- producing countries. The growth in domestic steel consumption is, by and large, in keeping with the International Iron and Steel Institute (IISI) forecast of a 10 per cent increase in steel use in 2006. While the IISI has projected the global demand for steel to grow by 4.9 per cent in the medium term up to 2010, it has pegged its forecast for the 2010-15 period at 4.2 per cent annually for the entire world. The IISI says India will lead the consumption growth story with an annual demand of 7.7 per cent, followed by China with 6.2 per cent. More heartening is the indication that the exciting phase in the domestic steel industry is expected to continue for the next five to seven years at the least, in terms of both consumption and production. Already, the growth in steel consumption, as projected by the United Progressive Alliance (UPA) government in the National Steel Policy (NSP) formulated in 2005, stands exceeded by a huge margin. The NSP had conservatively estimated the country's steel production to grow by 7.3 per cent, with an annual consumption growth of 6.9 per cent. Considering that the past two years have already witnessed a demand growth of over 10 per cent, the government expects the healthy trend to continue during the Eleventh Plan period (2007-12), provided an annual gross domestic product (GDP) growth of 9 per cent is achieved during the period as projected by the Planning Commission. Clearly, for primary steel producers, India is the place to be in as it has the greatest growth potential. Coupled with this are two other major factors. One, India is bestowed with the largest reserves of high-quality ironore in the world. Secondly, the annual per capita consumption of steel in the country is still one of the lowest in the world, at 35 kilograms against the global benchmark of 250400 kg. In effect, the growth story in India is here to stay for quite a few decades in view of the sheer disparity in consumption levels. Not surprising, then, that when the three ore-rich states - Jharkhand, Orissa and Chhattisgarh- threw open their doors, steel-makers of all hues jumped into the fray to sign memoranda of understanding (MoUs) with more than one state a total investment of a whopping Rs 3,57,344 crores in the coming years. If all the pledges materialise, the country's installed steel production capacity will surge to anywhere between 150 million and 180 million tonnes by 2014-15, compared with the conservative NSP target of 110 million tonnes by 2019-20. Orissa signed 43 MoUs to hike its production capacity to 58.04 million tonnes. Not to be left behind, Chhattisgarh entered into 42 MoUs to augment its steel capacity to 19.32 million tonnes, while Jharkhand signed 31 MoUs to increase its capacity to 68.67 million tonnes. The extensive availability of rich iron-ore- the basic raw material for steel-making – in the three states has attracted big global names too who, at the outset, made it clear that they would require captive iron-ore mines to feed their greenfield steel projects. Initially, it was the home-grown Tata Steel that signed an MoU with the Orissa government, in November 2004 for setting up a six-million-tonne plant at an estimated cost of Rs 15,400 crores after the government made a commitment that its ore requirement of 250 million tonnes for a period of 25 years would be met. By the time Pohang Iron and Steel Company (POSCO), the South Korear major and third largest global steel producer, approached the Orissa government, the terms turned out to be far sweete Under the MoU signed in June 2005, POSCO plans to set up a 12-million-tonne plant at Paradeep, with an investment of Rs 51,000 crores. The initial proposal was for a 10-milliontonne plant. But there is a catch here. The government has committed itself not only to provide 600 million tonnes of ore on a captive basis for a period of 30 years but also allowing POSCO to export the quality domestic ore for use in its steel plants in Korea. It has demanded the raw material from mines in Sundergarh and Keonjhar districts. Lakshmi N Mittal, the non-resident Indian (NRI) tycoon and world's biggest steel-maker following the merger of Mittal Steels with the Luxembourg-based Arcelor in June last year, did still better. He put Jharkhand and Orissa in competition by proposing a steel venture in either state, depending upon the terms and incentives and the swiftness in approvals. Jharkhand lost out-owing to litigation over its Chiraia ore mines and for other reasons - to Orissa, which signed an MoU with Mittal Arcelor in December last year for a 12million-tonne steel plant at Keonjhar. The state-owned Steel Authority of India Limited (SAIL)

also undertook a major exercise to retain its position as the leading integrated steel producer in the country. The steel behemoth announced its "Corporate Plan- 2012,' envisaging an outlay of Rs. 37,000 crores to upgrade its plants and modernise its operations. Under the plan, expansion programmes are under way in various SAIL units to enhance the total production capacity to 22.9 million tonnes of hot metal from the present 12.5 million tonnes by 2011-12. Late last year, following the merger of IISCO with SAIL, Prime Minister Manmohan Singh laid the foundation stone for the modernisation and expansion of ISP (IISCO Steel Plant) with an investment of Rs 9,592 crores. Mergers of a few more state-owned units with SAIL are on the cards with a view to consolidating public sector share in the steel market. The other public sector steel enterprise, Rashtriya Ispat Nigam Ltd (RINL), is already in the process of implementing an ambitious expansion programme for increasing its liquid steel capacity from the current three million tonnes to 6.3 million tonnes at an estimated cost of Rs 8,692 crores. Launched on May 20, 2006, the project is scheduled for completion by 2008-09. Needless to say, the demand for iron-ore has surged in view of the long-term supply commitments being given by the State governments at a time when the international market prices for the raw material are at a high.

This sparked off a debate among domestic steel-makers on from 2%, to fund secondary and higher education. The whether liberal ore exports should he permitted, as in the past, or the ore should be conserved to the extent possible in view of the projected demand for steel. The government set up a committee under the Planning Commission, headed by Anwarul Hoda, to recommend changes in the National Mineral Policy. The existing policy permits free exports of iron ore with a ferrous content of less than 64 per cent. For is required and is currently canalised through the Minerals and Metals Trading Corporation (MMTC). The Hoda Committee recommended free exports of iron ore with a ferrous content of less than 65 per cent but advocated discontinuation of the existing regime of canalisation and export licensing for the high-grade ore. Instead, the panel suggested free exports of quality ore lumps with ferrous

content of more than 65 per cent on payment of an export duty.

81. According to the passage, the steel industry in India has grown by in the past two years and In dia ranks among steel-producing countries.

l) 12%, sixth	(b)10%, seventh
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(c) 8%, first (d)6% eighth

- 82. per cent is the projected global demand for steel to grow in the medium term up to 20 10.
 - 6.9 (b) 5.9 I)
 - (c) 4.9 (d) 3.9

84.

According to the International Iron and Steel Institute. India 83. will lead the consumption growth with an annual demand of per cent, followed by China with percent.

•			-		
(a) (©).2,			(b) 8.7,		
Whsich o	ne	of	the(d)ollowing	statements	is
incon <u>rec</u> t?			7.7,		
3.2			6.2		

The licence for export of high-grade iron ore is being I) canalised through MMTC.

(b)With the merger of Mittal Steels with Arcelor, LN Mittal is the world's biggest steel-maker.

(c) A South Korean company is the world's third largest steel producer.

(A)s per Corporate Plan-2012 of Steel Authority of India Limited, the total production capacity will be enhanced to 12.5 million tonnes by 2011-12.

Passage II

P. Chidambaram might have rubbed Corporate India the wrong way by putting the big-bang reforms on the backburner, but he has definitely tried to buy peace with th aam aadmi by increasing investment in big-ticket projects like Bharat Nirman and National Rural Employment Guarar Programme (NREG). While the outlay for Bharat Nirman ha been hiked by 31.6%, allocations for the education sector and health and family welfare schemes have gone up by 34.2% and by 21.9%, respectively. Chidambaram also surprised many by increasing the education cess to 3%, government also proposed to increase funding for the midday meal scheme from the primary level to the upper prima classes in 3,427 educationally backward blocks. However, has pruned allocation for the Sarva Shiksha Abhiyan (SSA) - a scheme started by the NDA government. To arrest the dropout ratio after eighth standard, a means-cum-merit scholarship scheme covering one lakh students has been export of high-grade ore with higher ferrous content, a licence announced. The first year of the Eleventh Plan period will also see the appointment of two lakh teachers and construction of five lakh classrooms.

> As the saying goes, well begun is half done. But how many of these noble intentions will translate into actions? There are many unanswered questions. One, are the increased outlays enough to achieve the social goals enumerated in the UPA government's common minimum programme (CMI Two, is the greater allocation to the flagship programmes in proportion to the GDP growth?

> And more importantly, will the increased allocation also fix the lacuna in the delivery mechanism? The CMP, for instar has set a 6% target for education spend (as a proportion of the GDP). However, the spend has hardly touched the halfway mark as the coalition government moves closer to the end of its tenure. The education cess has also been swelling the general pool without any firm commitment fron the government on incremental spending to meet specific objectives. Experts also guestion the success of the Bhara Nirman project touted as "the cornerstone of the UPA government's policies" to fight rural poverty. The IDFC, for instance, raises doubts about the sustainability of the project in its India Infrastructure Report 2007. According to Prof Jean Dreze, one of the architects of the NREG and member of the Central Employment Guarantee Council, the two big disappointments in the Budgets are the allocations for Integrated Child Development Services (ICDS) and the Rural Employment Scheme.

> "Both are virtually unchanged as a proportion of GDP. If anything, they have declined," points out Dreze. The universalisation of ICDS, one of the core commitments of the CMP, assumes importance from another angle. The Supreme Court in a December 2006 directive called for the doubling of operational anganwadis by 2008 and wanted the government to ensure that all ICDS services be extend

to all children under six. "This cannot be done without?. Experts question the success of the Bharat Nirman increasing financial allocations. The absence of any such project touted as the cornerstone of the UPA increase in the Budget is an alarming indication of lack ofgovernment's policies to (a) (b) (c) (d) political commitment to this programme. It is also, in effect, a develop rural employment scheme.

violation of the court's order," he says.

In the case of Rural Employment Guarantee Schemes, it was estimated by the now-defunct National Advisory Councila (NAC) that at least around Rs 20,000 crores would be required for the fair implementation of the NREG Act in the country's 200 poorest districts. However, only Rs 6,000 crores has been spent as of January 2007 and the implementation is also tardy in many states, says Dreze "The need of the hour is not only to expand the number of districts covered by NREGA, but also to raise expenditure levels much close, to the NAC projections. Instead of this, the government proposes to extend NREGA to 330 districts without any increase in expenditure. This is another sobering indication of lack of commitment to flagship programmes and to the rural poor," says Dreze. TV Mohandas Pai, Director and HR Chief, Infosys, says that the government, instead of so many incremental steps, should have undertaken certain path-breaking initiatives in irrigation and health insurance for the poor. "The government should think of revolutionary steps to catapult the economy into a much higher orbit. For instance, the subsidies for food, fertilizers, kerosene and LPG, which account for about Rs 75,000 crore, can be done away with, and instead, a direct income transfer of Rs 1,000 each, to say 10 crore below-poverty-line families, which the government has already identified, could have been done," he says. This way, at one stroke, nearly 50 crore people (assuming five people in a family) will get a kind of social security, Pai argues.

While it is debatable whether the government would go in for such innovative methods to address social inequalities, a reality check would be in order. Otherwise, the ghost of India Shining would come back to haunt the UPA government have but little of connected experience; but the human as well.

Which one of the following statements is incorrect?

85.

(a) The implementation of National Rural Employment Guarantee Scheme has not been fair.

(b) e mid-day meal scheme has been proposed to be extended to upper primary classes in certain educationally backward blocks.

(c) During the period 2007-08, it is planned to construct five lakh classrooms.

(d) None of these

86. Which one of the following statements is/are true? (a)e education cess has also been swelling the general pool without any firm commitment from the government on incremental spending to meet specific objectives. (b)The outlay for Bharat Nirman has been hiked by 31.6%. (c)The CMP has set a 6% target for education spend.

(d) All are true

integrate child development. develop rural areas. fight rural poverty.

the case of Rural Employment Guarantee In Schemes, it is estimated by the now-defunct National Advisory Council (NAC) that at least aroundcrore would be required for the fair implementation of the NREG Act in the country's 200 percent districts (h)Rs

μαυί		(u)	11
)	25,000	(d)	20,000
(C	Rs		Rs
)	10,000	Passa	g1e51,10 00

All men by nature, desire to know. An indication of this is the delight we take in our senses: for even apart from their usefulness they are loved for themselves; and above all others, the sense of sight. For not only with a view to action, but even when we are not going to do anything, we prefer seeing (one might say) to everything else. The reason is that this, most of all the senses, makes us know and brings to light many differences between things. By nature, animals are born with the faculty of sensation, and from sensation, memory is produced in some of them, though not in others. And therefore, the former are more intelligent and apt at learning than those which cannot remember; those which are incapable of hearing sounds are intelligent though they cannot be taught, e.g. the bee and any other race of animals that may be like it; and those which, besides memory, have this sense of hearing can be taught. The animals other than man live by appearances and memories, and race lives also by art and reasonings. Now from memory, experience is produced in men; for the several memories of the same thing produce finally the capacity for a single experience. And experience seems pretty much like science and art, but really, science and art come to men through experience; for 'experience made art', as Polus says, 'but inexperience luck.' Now art arises, when from many notions gained by experience, one universal judgement about a class of objects is produced. For to have a judgement that when Callias was ill of this disease that did him good, and similarly, in the case of Socrates and in many individual cases, is a matter of experience; but to judge that it has done good to all persons of a certain constitution, marked off in one class, when they were ill of this disease, e.g. to phlegmatic or bilious people when burning with fevers - this is a matter of art. With a view to action, experience seems in no respect inferior to art, and men of experience succeed even better than those who have theory without experience. (The reason is that experience is knowledge of individuals, art of universals, and actions and productions are all concerned with the individual; for the physician does not cure man, except in an

incidental way, but Callias or Socrates or some other, called by some such individual name, who happens to be a man. If, then, a man has the theory without the experience, and recognizes the universal but does not know the individual included in this, he will often fail to 89. cure; for it is the individual that is to be cured.) But yet we think that knowledge and understanding belong to art rather than to experience, and we suppose artists to be wiser than men of experience (which implies that wisdom depends in all cases rather on knowledge); and this because the former know the cause, but the latter do not. For men of experience know that the thing is so, but do not know why, while the others know the 'why' and the cause. Hence we think also that the 90. master workers in each craft are more honourable and know in a truer sense and are wiser than the manual workers, because they know the causes of the things that are done (we think the manual workers are like certain lifeless things which act indeed, but act without knowing what they do, as fire bums, but while the lifeless things perform each of their functions by a natural tendency, the labourers perform them through habit); thus we view them as being wiser not in virtue of being able to act, but of having the theory for themselves and knowing the causes. And in general, it is a sign of the man who knows and of the man who 91. does not know, that the former can teach, and therefore, we think art is more truly knowledge than experience is; for artists can teach, and men of mere experience cannot. Again, we do not regard any of the senses as Wisdom; yet surely these give the most authoritative knowledge of particulars. But they do not tell us the 'why' of anything, e.g. why fire is hot; they only say that it is hot. At first, he who invented any art whatever, that went beyond the common perceptions of man was naturally admired by men, not only because there was something useful in the inventions, but because he was thought wiser and superior to the rest. But as more arts were invented, and some were directed to the necessities of life, others to recreation, the inventors of the latter were naturally always regarded as wiser than the inventors of the former, because their branches of knowledge did not aim at 92. utility. Hence, when all such inventions were already established, the sciences which do not aim at giving pleasure or at the necessities of life were discovered, and first in the places where men first began to have leisure. This why the mathematical arts were founded in Egypt; for there the priestly caste was allowed to be Wisdom to deal with the first causes and the principles causing immense economic as well as ecological loss. of things; so that, as has been said before, the man of experience is thought to be wiser than the possessors of any sense-perception what ever, the artist wiser than the men of experience, the masterworker than the mechanic, and the theoretical kinds of knowledge to be more of the nature of Wisdom than the

productive.

Clearly then, wisdom is knowledge about certain principles and causes.

What is the relationship between sensation and memory?

(a) Human beings are intelligent as they can reason, whereas animals do not have the capacity of reasoning. Human beings have sensation and memory both. (b All animals have sensation but some animals do not)

(ma)ve memory. (d)When sensation is remembered, it becomes a memory experience and this leads to connected experience, which in turn' gives rise to reasoning. What is the difference between art and experience?

(a) Art does not give the cause and effect of things, whereas experience gives the cause and effect of things. (b) Experience and art give rise to one another and they are complementary and supplementary to each other. And explains the cause of things together with its effects, whereas experience gives us just the effect of things, not the cause.

Buth experience and art are views of a contradictory time and space and this is where the difference between the two lies.

Why, according to the author, were the mathematical arts founded in Eqypt?

Bee)cause the sciences which do not cater to necessities or pleasures develop only after the previous two have been invented and only then, men have time for themselves. So was the case in Egypt where the priestly caste had ample leisure time.

Bue cause the inventors of luxuries were considered more important than the inventors of necessities and in Egypt, the kingly and priestly class had developed great standards in luxurious tastes and attitudes.

Because they were men of experience and had (C) wisdom and knowledge about certain principles and causes.

Bubcause Egyptians were considered to be connoisseurs of art and crafts and had superior civilization as opposed to the other ancient civilizations.

Which of the following can be considered to be the central idea of the passage?

(a)Art is superior to experience.

- (b)What actually is "Wisdom"?
- (c) "Experience made art, but inexperience luck".
- (d) Knowledge is wisdom.

at leisure. We have said in the Ethics what the Passage IV There are a few instances of diseases that have difference is between art and science and the other laid waste huge tracts of forests throughout India. Caused kindred faculties; but the point of our present mainly by pathogens and pests, these diseases are deadly discussion is this, that all men suppose what is called and are capable of wiping out entire forests and plantations,

Meanwhile, forest pathologists and entomologists are grappling with new maladies that are surfacing almost every year. But with meagre resources and just a few Varying with different geophysical regions and climatic experts working on the issue, things are heading virtually conditions, pathogens and pests are essentially responsible towards a culde-sac.

quantify the devastation. While large chunks of forests natural control measure to check the proliferation of a fall prey to maladies, it is also an opportunity for some particular species that could threaten the balance of the politician and timber merchants to cash in on it. Research ecosystem. Perhaps, this is why forest diseases paled into and documentation on forest disease, particularly on insignificance in the past. But today, with shrinking forests forest pathology, began in India way back in 1929, by and increasing monoculture plantations, any outbreak of pioneering pathologists KD Bagchi and BK Bagchi. disease takes on a virulent form. Although it has been eight decades since then, not much headway has been made in this; direction. The forestry To top this, changed climatic and forest patterns and sector today is ailing due to its misplaced priorities, environmental pollution have given rise to newer forms of resource crunch, and mismanagement. management lacks scientific approach," says Surendra additional load of human-induced environmental changes, Kumar, director of the Himalayan Forest Research the introduction of mono culture has substantially Institute (HFRI), Shimla.

today a dispirited lot. With only a few stalwarts left in this the study of forest pathogens. Mycology explains that the field, forest disease is a neglected area of research. prime pathological reasons for forest disease are fungi, Moreover, bureaucracy is increasingly taking over the bacteria and viruses. "Among these, fungi playa major scientific institutions and scientists in most of these institute role, while the other two are relatively less significant. arc a marginalised group.

To top it all, there are no institutions dedicated to forest The rest are fungal," says Jamaluddin. diseases. Although the ministry of environment and forests attention to promote scientific research of forest diseases; to infiltrate. Their entry points are small openings or wounds the fore with the Sal borer epidemic in Madhya Pradesh in beings, trees also have antibodies that fight anything alien. 1998. While forest bureaucracy slept, the beetles merrily In case of invasion from the trunk of a tree, the sapwood continued to wipe out entire tracts of precious Sal forests. acts as a shield and secretes enzymes to fight pathogens. Eventually, with no solution in sight, thousands of valuable But when attacked and conquered, there are tell-tale signs trees were hacked. There were also allegations that the Sal in the form of knotty growths of fruit bodies that are tragedy was a chance for the timber mafia in the state to extensions of the fungi in the tree. cash in on timber through the legal loophole, with the nexus Which of the following is the author most likely to agree of politicians.

Today, things haven't changed one bit. India', forest department and research institutes have yet to formulate contingency plans to face any assault of similar dimensions.

Forest diseases are elusive. Although experts claim that they know similar to the Sal Borer epidemic, spreading the country. quite a lot about forest diseases, there are still aspects of the maladies that are not completely understood. Says RS Bhandari, entomologist in the Forest Research Institute (FRI), Dehradun, "We know about all the important pests 94. and insects, their life cycles and their development. But there are a few diseases which remain an enigma." According to Jamaluddin, head of the pathology department in the Tropical Forest Research Institute (TERI), Jabalpur, "Due to

micro climatic changes, we are discovering new aspects of the same disease every year. Diseases have also increased manifold." Another FRI scientist points out that although forest diseases are increasing, there is no study to estimate 95.

the economic and ecological damage caused by these pests

and pathogens.

for the tree maladies and their mortality. When the pristine, Moreover, no assessment has been made so far to natural and mixed forests existed, forest diseases acted as a

"Forest forest diseases. While trees are forced to take an increased the problems. Whatever little we know about The scientific community involved with forest diseases is forest diseases today comes primarily through mycology, There are 150 to 200 major pathological infections in central India. Out of these, only five per cent are bacterial.

is the facilitator for such research, it is not paying enough Most of these pathogens stay close to a tree, waiting for a chance In fact, the government's lackadaisical approach came to in the tree. However, invasion is not always easy. Like human

908th?

(a) The ministry responsible should take a more serious view towards research in forest diseases.

(b) There is a likelihood of another forest disease epidemic,

- (c) There needs to be a more coordinated effort to wards dealing with forest diseases in India.
- (d) All of these
- Which of these incidents discourages the government to formulate any kind of concrete plans?
 - India lacks specialists in this area of forestry. (a

The government is not able to work in concomitance) (bith specialists, like entomologists and pathogenists.

(c) The prevalence of malpractices, such as the alleged nexus of politicians with some of the forest officials. (d) None of these

Which of these statements cannot be inferred from the passage?

(a)With the variation of different climatic conditions, pests responsible for forest tree degradation, disappear.

(b) There are hardly any committed institutions in India, for the promotion of research in forest diseases in India. (c)s possible that the timber mafias could spread their network with help from vested interest in the political

and bureaucratic brass.

- (d) None of these.
- 96. The discussion on the present condition of forest diseases proves that

(a) there must be a cooperative endeavour by scientists, government officials and politicians to weed out the possibilities of forest diseases.

- (b) a lot more needs to be done by the government
- sustaining the ecological balance. (c) hitherto forestry has been a neglected area of research.
- (d) None of these

Passage V For years, the contents of a child's sandbox have confounded some of the nation's top physicists. Sand and other granular materials, such as powders, seeds, nuts, soils, and detergent, behave in ways that seem to undermine natural laws and cost industries ranging from pharmaceuticals to agri- business and mining, billions of dollars.

Just shaking a can of mixed nuts can show you how problem atigain, using beads, physicists developed a simple granular material can be. The nuts do not 'mix'; they 'unmix' theoretical model in which they assume that a given others, granular matter's behaviour apparently goes counter agrees well with experimental results, it does not take entropy, or disorder, tends to increase in any natural system. between grains of sand or wheat. Mimicking the mixed-nut conundrum with a jar containing many

claimed that vibrations causing the beads to percolate open physicists have at least one thing in their favour. Unlike up small gaps rather than larger ones. Thus, when a Brazil particle physicists who must secure billions of dollars in underneath and gradually nudge it to the top. Another group which to accelerate and view infinitesimal particles, they centre and down the sides of the container. Yet downward will lead to equations that explain the unwieldy stuff and too narrow to accommodate the larger bead, stranding it on occur in the various industries that handle it.

speeds might sort them, while mixing at other speeds will make them thoroughly amalgamated. One aspirin company still relies on an experienced employee wearing a latex glove who pinches some powder in the giant mixing drum to see if it 'feels right'.

Granular material at rest can be equally frustrating to physicists and engineers. Take a tall cylinder of sand. Unlike a liquid, in which pressure exerted at the bottom increases in direct proportion to the liquid's height, pressure at the base of the sand cylinder doesn't increase indefinitely. Instead, it reaches a maximum value and stays there. This "quality allows sand to trickle at a nearly constant rate through the narrow opening separating the two glass bulbs of an hourglass, thus measuring the passage of time.

Physicists have also found that forces are not distributed evenly throughout granular material. It is this characteristic that may account for the frequent rupturing of silos in which grain is stored. In a silo, for instance, the column's weight is carried from grain to grain along jagged chains. As a result the container's walls carry more of the weight than its base, and the force is significantly larger at some points of contact than at others. Coming up with equations to explain, much loss, predict the distribution of these force chains" is extremely difficult.

and sort themselves out, with the larger Brazil nuts on top bead transmits the load it bears unequally and randomly and the smaller peanuts at the bottom. In this activity and onto the three beads on which it rests. While the model to the second law of thermodynamics, which states that into account all of the mechanisms of force transmission

small beads and one large bead, one group of physicists In the struggle to understand granular materials, sand-studying nut becomes slightly airborne, the peanuts rush in government funding for the building of super-colliders in of physicists colour coded layers of beads to track their can conduct experiments using such low-cost, low-tech circulation in a container and achieved a different result. materials as sand, beads, marbles, and seeds. It is hoped Vibrations, they found, drive the beads in circles up the that more low-tech experiments and computer simulations currents, similar to convection currents in air or water, are reduce some of the wastage, guesswork, and accidents that top. The percolation theory of unmixing is bout illustrated by

Which of the following examples?

One industrial engineer who has studied the problem says that both the 'percolation' and 'convection current' theories can be right, depending upon the material, and that percolation is the major factor with nuts. Given the inability of scientists to come up with a single equation explaining unmixing, you can see why industrial engineers who must manage granular materials go a little, well, 'nuts'! Take Pharmaceuticals, for instance. There may be six types of powders with differentsized grains in a single medicine tablet. Mixing them at some

(a) Contents settling in a bag of potato chips so that the package appears less full after handling.

(b) Currents of small beads blocking the upward movement of large beads in a shaken container.

(c) Larger rocks rising to the surface in a garden after a period of frost.

(d) Largo nuts blocking the upward movement of small nuts in a shaken container.

98. In saying that the percolation and convection current 105.If the selling price of a product is increased by Rs 10	
theories may both be right, the industrial engineer then the business would make a profit of 17% instead o	fa
means that. Ioss of 19%. What is the cost price of the product?	
(a) (b) hough the theories have different names, they describe 1) Rs 540 (b) Rs 450 (c) (c) maximum (c) Rs 360 (d) Rs 600	
(c) (spame physical mechanism. both theories are still unproven, as they have not been 106.Two men undertake to do a piece of work for Rs. 1,40	0 Firet
tested on a variety of materials. man alone can do this work in 7 days while the second ma	iu. Fiist an
neither theory is supported by an adequate alone can do this work in 8 days. If they working togethe	
mathematical hasis	
the mechanism causing unmixing varies depending should money be divided? upon the type of granular material.	
99. Which of the following appears to be the best solution for (a) Rs 600, Rs 550, Rs	
combating the 'unmixing' problem faced by pharmaceutical (b) 250	
manufacturers that must prepare large quantities of powders? $\binom{(c)}{(d)}$ Rs 600, Rs 525, Rs	
(a) To mix all the powders together at the same speed. (d) 275 (b) To craft powders in which every grain weighs the same?.Two men600dertak500a dts a piece of work for Rs 60	no
amount. One alone300uRsd500inRsd5295,and the other in 8 days. W	ith
(c) To craft powders so that all the grains have similar the assist are a boy they finish it in 3 days. Boy's sha	
sizes and shapes. should be	
(d) To hire engineers who have years of experience in (a) Rs 75 (b) Rs 225	
powder mixing. (c) Rs 300 (d) Rs 100	ما الم
100.The passage implies that if the top bulb of an hourglass user filled with water instead of sand the pressure pushing work but at the end of 10 days 15 additional men, with dou	
were filled with water instead of sand the pressure pushing the water through the opening would efficiency, were inducted. How many days, in whole, did	
(a) remain constant as water trickles through the openingev take to finish the work?	
(b) decrease as water trickles through the opening.	
(c) increase as water trickles through the opening. (a) $72\frac{1}{2}$ days (b) $\frac{384}{4}$ days (d) be directed at the walls of the container rather than the	
101 The ratio between the number of necessary travelling by L (a) 70 days	
and II class between the two railway stations is 1 : 50, whereas 3	
the ratio of I and II class fares between the same stations is 109. There are two taps to fill a tank while a third to empty	it.
3 : 1. If on a particular day, Rs 1325 revenue collected from the passengers travelling between these stations, then what minutes and 12 minutes representing to the three terms in 10	
was the amount collected from the II class passengers?	
opened, the tank is filled in 15 minutes. If the first two taps are closed, in what time can the third tap empty the	5
(a) Rs 1000 (b) Rs 850 tank when it is full?	
(c) Rs 750 (d) Rs 1250 (a) 8 min and 34 sec (b) 9 min and 32 sec	
102.A and B enter into a partnership with Rs. 50,000 and Rs. (c) 7 min (d) 6 min 60,000 respectively. C joins them after x months contributing	
Rs 70,000 and B leaves x months before the end of the year	
If they share the profit in the ratio of 20 : 18:21, then find the minutes respectively. There is also a waste pipe in the cist	
value of x. $(a) = 6$ $(b) = 2$ $(b) = 2$ $(b) = 10$ $(c) = 10$	
(a) 0 (b) 3	
103.Rahul started a business with a capital of Rs 8,000. After six (a) 12 minutes (b) 10 minutes	
months, Sanjay joined him with an investment of some capital. (c) 8 minutes (d) 16 minutes	
If at the end of the year each of them gets equal amount as 111. Two taps can fill a tank in 20 minutes and 30 minutes	
profit, how much did Sanjay invest in the business? respectively. There is an outlet tap at exactly half le that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or the tag at exactly half le that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that rectangular tank which can pump out 50 litres or that pump out 50 litr	
(a) Rs 16,000(b) Rs 17,500that rectangular tank which can pump out 50 litres of(c) Rs 18,000(d) Rs 16,500per minute. If the outlet tap is open, then it takes 24 r	
104.A manufacturer of a certain item can sell all he can produce to fill an empty tank. What is the volume of the tank?	
at the selling price of Rs 60 each. It costs him Rs 40 in materials (a) 1800 litres (b) 1500 litres	
and labour to produce each item and he has overhead (c) 1200 litres (d) 2400 litres	
expenses of Rs 3000 per week in order to operate that plant. The number of units he should produce and sell in order to including stoppages, the speed of a bus is 54 km/hr and including stoppages it is 45 km/hr.	
make a profit of at least Rs 1000 per week is does the bus stop per hour?	S
(a (b) 30 (a) 12 (b) 10	
) 250 (d) 0 (c) 9 (d) 20	
(c 400 20 (c) 2 - c) = 0	
, 0	

Rampur for Sitapur and	Sitapur. At 3 pm Bharat Express I travels at a constant speed of 30) km/ (a) if both statemen		
	nan Mail leaves Sitapur for Rampi		asked, but neither s	tatement alone is
	nt speed of 40 kmph'. Each train r ion 10 km from its starting point a		alono is sufficient h	it statement (A)
remains there for 15 m		alone is not sufficient		
	Rampur when they meet?	(c)if statement (A) al		
(a) Both are equidista		alone is not sufficier		
(b)Laxman Mail		(d)if each statement	•	
(c) Bharat Express		question asked.		
(d) None of these		121.How much did the sal	esman earn from the	sale of 3 cars?
	h the initial speed of 40 kmph, wit			
	our by 5 kmph. How many hours	(A)Each car sold for		
will it take to cover a distanc		(B)He received a 2%		n sale.
	b)9½ hrs d)7 hrs	122.What does WXY equa (A)W=X+Y	tl ?	
	worth Rs 25 per kg must be	(A)W = A + T (B)WXYZ = 6Z		
blended with 30 kg of tea	worth Rs 30 per kg so that by t Rs 30 per kg there should be a		itest, C, D or E?	
gain of		(B)C + 2 = D ≥ E		
	b) 40 kg	124.If Sanjay can paint a l	nouse in 15 hours wo	orking alone,
	(d) 42 kg	how long will it take t	o paint the house if N	/lohit helps
	costing Rs 5.75 per kg should be	him?		
that the mixture is worth Rs	sugar costing Rs 4.50 per kg so	(A) Mohit can paint th		
	b) 300 kg	(B)Working together total work.	with Sanjay, Monit de	bes 3/701 the
	d) 325 kg	iolai work.		
() 0	lary of employees, consisting of	Directions (Oc. 125 129)	In each of these a	unations two
officers and workers of an or		Directions (Qs. 125-128) quantities are given, one		
officers and workers of an or average salary of an officer i	ganisation is Rs 3000. The	quantities are given, one	in column A and o	
average salary of an officer i is Rs 2,000 per month. If the	ganisation is Rs 3000. The s Rs 10,000 while that of a worke re are total 400 employees in the	quantities are given, one Compare the two quanti Mark answer as	e in column A and o ties.	
average salary of an officer i is Rs 2,000 per month. If the organisation, find the numbe	ganisation is Rs 3000. The s Rs 10,000 while that of a worke re are total 400 employees in the	quantities are given, one Compare the two quanti Mark answer as (a) if the two quanti	e in column A and o ties. ties are equal	
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Directions (Qs. 121-124): Each of the questions below is followed

by two statements, labelled (A) and (B). Decide whether the irections (Qs. 129-132): Refer to tint following line graph whic data given in the statements is sufficient for answering the represents the rainfall in inches during the months of question. January through July in a particular year in a certain city.



In each of those questions two quantities are given, one in colum A and one in column B. Compare the two quantities.

Mark answer as

- (a if the two quantities are equal if the quantity in
-) column B is greater if the quantity in column A is
- (b greater if the relationship cannot be determined) from the

(conformation given.

(Column A

Column B Ifall 2:3

- 129. The ratio of rainfall 2 between the months February and July
- 130.The average monthly 1.9 inches rainfall recorded for the 7 months

131.12½% of all the rain	The amount of rainfall
that fell during the	during Rainfall during the
7 -month period	month of February.
132. The ratio between the	The ratio between the
	average rainfall in April and
average rainfall in	February
May and January	

Directions (Qs. 133-136): Study the table to answer these questions.

Table – Number of cancer cases over two years for selected countries.

		countries.	
country	200	2006	2007
	(in '00 cases	(Rate per 10,000) (in '00 cases)
Α	53	0.1	46
В	345	2.1	145
C	87	1.1	39
D	81	33.9	26
E	84	0.	23
F	1365	8	209
G	661	1 0 3.0	239
Н	516	<u>1</u> 23.0 9.	236
J	36	<u>⊉</u> . 9	16
K K	95	<u>0</u> .	23
	262	2	156
	19	 1.	18
	-	8	563
N	1862		11
P	47		18
Q	49	<u>ğ.</u>	235
nn^{R}	337	<u>р.</u> Я	35
5	61	<u>д</u> .	12
	17		235
U	896	Í.	14
V	39	2	5
	31	0.	12
<u> </u>	501	3	73
<u> </u>	217	1.	
Z	31	5	13
AA	39	1.	35
AB	46	4	21
AC	48		32
AD	71	0.	83
AE	162	0.	241
AF	655	6	6445
AG		1.	219
AH	21,861	4	13
AJ	869	0.	
	19	9	
		-	

All countries that have reported more than five hundred cancer to the WHO in 2007 are listed here. The left column gives the total number of cases reported by each country for 2006, the middle column gives the 2006 rate (cancer cases per 10,000 population) and the last column shows the number of cases reported in early 2007.

Most of the 2007 reports were for only the first quarter of the year. Owing to reporting delays of six months or more, cases reported in 2007 actually were diagnosed in 2006.

133.What is the population of AB_{0}^{8} on the basis of the reported cases of cancer in 2006 (inthousands)?

(a		(b) 🗧	§12,500

) 825,00 (d) None of these

134. Withiclo country has reported the second highest number of cancel cases to WHO during 2006?

(a) N0	(b) AG
(C) F	(d) U

135.The countries which have reported less than 2000 cases both the 2006 and early 2007 are

(a) M, J and P	(b) V,AJ and W
(c) W, M and T	(d) M, T and AJ

136. Which of the following are true from the table?

- Ι.
- to their population are negligible. П.
- III. The 2006 rate is highest for P though the reported cases volatile, then how many chemicals are not highly volatile
- IV. are only 4700. The population of R is 664,000 in 2006. P reported more than 20,000 cases of cancer in early 2007.
- I, II and III (b) II and III (a)
- 1 and II (C) (d) I, II and IV

Directions (Q. 137-140) : Refer to the following Tables (A) and (B) to answer these questions.

Table (A): Production of Inorganic Chemicals

Descriptio n	Product	ion (tonnes
Bleaching Powder	2002-03	2003-04
Aluminium Chloride	60, 043	51,434
Sodium Tripoly Phosphate	,	31,176
Sodium Bi-carbonate	60, 639	60, 041
Calcium Carbonate	61,615	72,895
Chlorine andLiquid Chlorin	e143,980	142,125
Calcium Carbide	717,220	718,530
Titanium Oxide	83,445	83,388
	30,422	19,624

Table (B): Production of Organic Chemicals

Descrip t i o n	Product	ion (tonnes
Ethylene Glycol	2003-04	2002-03
Formaldehyde	327,387	454,371
Fatty Acids	140,384	145,590
Aniline	99,320	113,851
Acetone	44,273	39,340
Acetic Acid	45,657	44,500
Pthalic Anhydride	208,921	212,319
Benzene	127,318	125,959
Xylenes	329,000	373,000
Phenol	147,288	156,000
	69,281	66,210

137. The ratio of the number of organic chemicals for which the production has fallen to the number of inorganic chemicabirections (Q. 145-148): Each of these questions has a for which production has fallen is

- 2:3 (b) 3:2 (a)
- (C) 6:5 (d) 1:1

138.Of all chemicals shown, the highest percentage increase in production has been exhibited for

- (b) Ethylene glycol (a) Aniline
- (c) Fatty acids (d) Sodium bicarbonate

139. The chemical, whose production in 2003 - 04 as a proportion of its total production for the two-year period was the lowest, is

- (a) Aniline (b) Ethylene glycol
- (C) Fatty acids (d) None of these

- 140. If productive volatility is defined as the percentage change The reported cancer cases of M, Wand AJ as compared in production, and it is known that any chemical whose productive volatility is greater than 5% is classified as highly (amongst organic chemicals)
 - 6 (a (b) 5

)

(C

4 (d) None of these

Directions. (Q. 141-144): Choose the correct option for the give blanks.

141. Pipes are not a safer to cigarettes because, though pipe smokers do not inhale, they are still

higher rates of lung and mouth cancers than non-smokers.

- alternative subject to (a
- answer responsible for)
- (b preference - tree from
- rejoinder- involved in)
- 142. Because of its tendency to most Indian art (sl...... Japanese art, where symbols have been minimized and meaning has been conveyed by using the method of the merest suggestion.
 - (a) overdraw similar to
 - (b) understate reminiscent of
 - (c) imitate superior to
 - (d) sentimentalism supportive of
- 143. In the absence of native predators, to stop the spread of their population, the imported goats.....to such an inordinate degree that they over-grazed the countryside and the native vegetation.
 - thrived- threatened (a
 - suffered abandoned)
 - (b propagated cultivated
 - (d) dwindled-eliminated

144. T(be) analysis of anything but the coach's report was but those of us who have learned to discount such dismal are optimistic.

- (a) malicious benefits
- (b) sanguinary traps
- (c) pessimistic confusion
- (d) pleasant prognostications

set of four sentences marked A to D. Identify the arrangement of these sentences which makes a logicalsequence the beginning mathematics from what went before.

(B)ver since this discovery, abstraction has been a major theme in the development of mathematics, as those interested in the field have come up with ideas further and further divorced from their basis in the real world, and then sought ways to bring them back to tell us things about the real world which we might (Offeevolise on out heavef about and the person who first realized that numbers are independent of the objects being share a property, 'twoness', which is independent of what kinds of fruit they are.

(D) Abstraction, the action of divorcing properties of physical objects from the objects themselves, is a fundamental concept, perhaps the most fundamental concept, in mathematics.

(a	CBAD	(b)	DBCA
)	DACB	(d)	DABC

146.(A)The accomodation theory, in linguistics, starts he premise that speech accommodation takes place when people modify their speech so that it conforms more with the way their conversational partners speaks.

(B) For example, the speed at which people talks, the length syntax used, as well as intonation, voice pitch and

(C) obset weighter weighter otest and a practice on the state of the s unconsciously. (D)This kind of convergence is by no means an automatic feature of all conversations, and we can discern certain social contexts in which accommodation can be predicted.

(a	BDAC	(b)	DAB
)	ACBD	(d)	С

147.(Ac) fossil evidence suggests ABBC the mammals underwent adaptive radiation to produce the prange of mammal types extant today.

(B) Adaptive radiation, in the life sciences, refers to the differentiation (or anagenesis) of one or a few species into many to fill a large number of related ecological niches by adaptation.

(C)Thus the first bird species may have given rise to many more bird species by adaptive radiation.

(D)Typically, a species adapts to colonize a new habitat and, this adaptation opening up a new range of niches, adapts again to fill the new niches which are presented.

(a	CBAD	(b)	BOC
)	BADC	(d)	А

in at **a** lower price deliver the sto**a**k that had been sold under India. the future contract at a higher price.

(B)A market in which prices are falling or are expected to fall is called by economists a bear market.

(C)Likewise, the term bear can be applied to a person who expects stock prices to fall and sells stock that he or she does not have for delivery at a future date.

(D)It is a designation commonly used in securities markets and commodity markets and is the opposite of a bull market.

(a) BOCA	(b) BCAD
(c) BACD	(d) ACBD

Directions (Qs. 149-152): In each of these questions, a in the context of the correct usage of standard written part of the sentence has been underlined. Find the best English. While doing so, ensure that the message being way of writing the underlined part of the sentence.

counted, that two oranges and two apples (for instance) 149. To prepare himself, he subjected himself to two weeks of total abstinence and intensive training in the open fields of Panipat, climbing the hills nearby 30 times, spend nights in the open and to test to see how long he could hold out without food.

> (a) spending nights in the open by climbing the hills nearby 30 times and tested for seeing

(b) climbed the hills nearby 30 times, spending nights in the open and tested to see

(c) climbing the hills nearby 30 times, spend nights in the open and to test to see

(d) climbing the hills nearby 30 times, spending nights in the open and testing to see

of both pauses and utterances, the kind of vocabulary and 50. In rural India, many mango trees are planted at the end of a village or at the border of a district, for providing pronunciation are all subject to the accommodation processecellent shade during summer, and shelter during winter.

> (a) in order to provide excellent shade in summer, and shelter in winter.

> (b) to provide excellent shade in summer, and shelter in winter.

(c) for providing excellent shade during summer, and shelter during winter.

(d) so as to excellently provide shade in summer, and shelter in winter.

151.Mental intelligence and common sense are essential for outstanding achievement because they involve your natural ability to comprehend difficult concepts quicker and to analyse them clearly and incisively.

(a) your natural ability of comprehension of difficult concepts quickly and clear and incisive analysis of it. (b)one's natural ability for the comprehension of difficult concepts quickly and analysing them clearly and incisively. (c) your natural ability to comprehend difficult concepts quicker and to analyse them clearly and incisively.

(d) one's natural ability to comprehend difficult concepts guickly and to analyse them clearly and incisively.

152.Panchayati Raj institutions are now entrusted upon the 148.(A)When the future date arrivers the hear expects to buy execution of all rural upliftment schemes and programs in

> (a) entrusted with the execution of all rural upliftment schemes and programs

(b) entrusted with the execution of all rural uplift schemes and programs

(c) entrusted upon the execution of all rural upliftment schemes and programs

(d) entrusted within the execution for all rural uplift programs and schemes

Directions (Q.153-156): Each question has a given sentence. Identify the best way of writing the sentence conveyed remains the same in all the cases.

prayer. correctness. (b) At the most surprising of moments they exactly blurt it (a) After we bowed our heads, the priest in the temple led out. us to prayer. (c) When they want to, Indians have an amazing way of (b) After we bowed our heads, the priest in the temple led telling the truth. us to prayer. (d) Unvarnished it no doubt is but it's also refreshingly (c) Having bowed our heads, the priest in the templeled unalloyed. us in prayer. 159.(Table second risk lies in the global macroeconomic (d) After we had bowed our heads, the priest in the imbalances, reflected in the twin deficits of the US and temple led us in prayer. rising surpluses of Asia. 154. Anyone interested in flying planes can learn much if you (b) Therefore, addressing infrastructure gaps needs to have access to a flight simulation machine. doing our topmost priority next year. As the growing economy makes increasing demands (a) Anyone interested in flying planes can learn much if on infrastructure inputs, these problems could access is available to a flight simulation machine. worsen in the coming year. (b) Anyone interested in flying planes can learn much if (d) The longer these imbalances have persisted, the greater he has access to a flight simulation machine. has become the risk of a disruptive correction. (c) Anyone interested in flying planes can learn much if you have access to a flight simulation machine. (d) Anyone interested in flying planes can learn much from (E) r years now, pitches have been prepared to suit the home team's strengths and that is fine so long as the access to a flight simulation machine. pitch is not a lottery. 155. The moral of the entire story is how money doesn't make (b) It is here that BCCI needs to show the same will, as you happy. they have shown in making players play domestic cricket. (a) In this novel, the moral of the story is how money doesn't (c) The only problem is that the wickets that are on offer for domestic cricket are hardly conducive for batsman. make you happy. (fi)pne goes by the scores in some of the matches, (b) The moral of the entire story is that money doesn't especially Delhi's games, then it is guite obvious make you happy. that the pitches prepared are sub-standard and not (c) The moral of the entire story is how money doesn't conducive to a fair contest between bat and ball. make you happy. (d) That money does not make you happy, is the entire moral of the story. 161.A Nuclear-Risk Reduction Treaty was recently signed 156.Ever since the sting operation, there has been much between opposition from they who maintain that it was an (a India and Pakistan unauthorised act. China and Pakistan) India and USA (b Ea)er since the sting operation, there has been much India and China) opposition from those who maintain that it was anecot of the 33rd National Games was unauthorised act. (d) Mello (b) er since the sting operation, there has been much (b) Veera, the ongole bull opposition from they who maintain that it had been an (c) Rongmon, the baby rhino unauthorised act. (d) None of these opposition from they who maintain that it was an unauthorised act. (a) 50 years of DNA and 25 years of IVF Ed)er since the sting operation, there has been much (b)More Crop Per Drop opposition from those maintaining that it was an (c)More Water Drop by Drop unauthorised act. (d) None of these 164.Which among the following movies was given the Best Directions (Os. 157-160): Identify incorrect sentence. Picture Award at the 97th Oscar Awards 2007 157. (a) The energy, the faith, the devotion which we bring to The Oueen (a this endeavour will light our country and all who serve it. The Last King of Scotland) (b) I do not believe that any of us would exchange places The Departed (b with any other people or any other generation. Happy Feet (b) the long history of the world, only a few generations) has been granted the role of defending freedom in its holds. Tayline 'Empowering People' is linked with which brand ? of maximum danger. ()d Acer (b) Compaq (d) The glow from that fire can truly light the world. Ic) HCL (d) Wipro

153. Having bowed our heads, the priest in the temple led us in158.(a) It's said without artifice and without care for political

166.The Chief M	linister of Uttara	akhand is	178.For	the pu	rpose of Cer	ารนร	200 I, which one of	f the fol
(a N.D. T	iwari (b)	B.C.		•	Is taken as l			
) Ibobi S	Singh (d)	Khanduri		-		-	rs and above, who	can bothread
		state the swat successfully	an	d write	with unders	tand	ling in any languag	е
	n March 2007 b						rs and above, who	
(a) INSAT-3		NSAT-4A	• • •	•	•	-	ling in any languag	
(c) INSAT-4	• •	NSAT-4C					ars and above, who	
		ames are scheduled to be	• •	-	-	-	ling in any languag	
held at Dell		Ostalasi 2000					rs and above, who	
(a Octobe		October 2008	an	d write	with unders	tand	ling in any languag	
) 2010	(u) frtho crickot co	November 2010 ach of which among the follow	,179.Cor	nsider t	he following	state	ements	
TOS. IUE UBBLUUE	during the 20	007 World Cup has create	A)	GAT	T was succe	edeo	d by the World Trac	le Organization
suspicion?		bor world Cup has create	ua ′		r 1995.			J
(a) India		Pakistan	В	Head	Iquarters of	WTC) are in Doha.	
(c) Sri Lar	• • •	Bangladesh)	World	d Intellectua	l Pro	perty Organization	is a specialized
		itly in the news is	£g	ency of	f WTO.			-
	n of NASA to M		y Wh	nich of	the stateme	nt(s)	given above is/are	e corect?
(b´A spac			(a	(B) a	nd (C) only	(b)	(A) and (B) only	
		unched by private firm Space		(A) o			(A), (B) and (C)	
	Technologies	(Space X)	•		•	rates	s is not decided by	the Reserve
(d) None (nk of Ir	ndia (RBI)?			
		ecurity pact other than US, wi	th (a		Rate	• •	SLR	
	ng the following)	CRR		(d)	Savings Bank Rat	e
(a) India	• • •	Russia	(C					
(c) Austra 172.Devaluation	()	China			-		nsider the follow	
	the general lev	vel of prices		-			are given, for the	-
		e of money in terms of foreign					wood and sawn t	
currency		of money in terms of foreign	-			-	price of logs is gi	
							n ic daiial to 1 M	n ka and
(c) Decrea	ase in the purcl	hasing power of money	per cub		er. Assume) I ((on is equal to 1,00	oo ky anu
(c) Decrea (d Quanti	ase in the purcl ity of money is	hasing power of money exceeding the amount of goc	per cub one cub	bic met	er. Assume er of Log w	e I to reigh	is 800 kg.	
(d Quanti	ity of money is	hasing power of money exceeding the amount of goc pairs is not correctly matched	one cut	bic met	er of Log w	eigh	ns 800 kg.	oo ky anu
(d Quanti 173.Which one c	ity of money is of the following	exceeding the amount of goo pairs is not correctly matched	one cut	bic met	er of Log w	eigh	luct Prices	
(d Quanti 173.Which one c (a) LERMS	ity of money is of the following - Rupee conve	exceeding the amount of goc pairs is not correctly matched ertibility	one cut		er of Log w	eigh	ns 800 kg.	
(d Quanti 173.Which one c (a) LERMS	ity of money is of the following - Rupee conve	exceeding the amount of goc pairs is not correctly matched ertibility	one cut	bic met	er of Log w	eigh	ns 800 kg.	-•
(d Quanti 173.Which one c (a) LERMS (b) EXIM so (c) EXIT p	ity of money is of the following - Rupee conve crips - Export si policy - Import of	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls	one cut ?	25,000 20,000	er of Log w	eigh	ns 800 kg.	•
(d Quanti 173.Which one c (a) LERMS (b) EXIM so (c) EXIT ((d) EPZ -	ty of money is of the following - Rupee conve crips - Export s policy - Import of Export promotio	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls	one cut ?	25,000 20,000 15,000	Timber	Proc	ns 800 kg. duct Prices	-+ -=
(d Quanti 173.Which one c (a) LERMS (b) EXIM so (c) EXIT ((d) EPZ -	ty of money is of the following - Rupee conve crips - Export s policy - Import of Export promotio	exceeding the amount of goc pairs is not correctly matched ertibility ubsidy controls on	one cut	25,000 20,000 15,000 10,000	er of Log w	Proc	ns 800 kg. duct Prices	•
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174.The tax which States is (a) Corport	ity of money is of the following - Rupee conve crips - Export s policy - Import of Export promotio ch is not shared ration Tax (b)	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax	one cut ?	25,000 20,000 15,000	Timber	Proc	ns 800 kg. duct Prices Plywood	
(d Quanti 173. Which one c (a) LERMS (b) EXIM so (c) EXIT p (d) EPZ - 1 174. The tax which States is (a) Corpor (c) Income	ity of money is of the following - Rupee conve crips - Export su policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d)	exceeding the amount of god pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty	one cut ?	25,000 20,000 15,000 10,000	Timber	Proc →	ns 800 kg. duct Prices Plywood Sawn Timber	
(d Quanti 173. Which one c (a) LERMS (b) EXIM so (c) EXIT p (d) EPZ - 1 174. The tax which States is (a) Corpor (c) Income 175. Which of the	ity of money is of the following - Rupee conve crips - Export si policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two	exceeding the amount of god pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the	one cut ?	25,000 20,000 15,000 5, 000	Timber	Proc	ns 800 kg. duct Prices Plywood	-• -•
(d Quanti 173.Which one c (a) LERMS (b) EXIM so (c) EXIT p (d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian	ity of money is of the following - Rupee conve crips - Export si policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ?	gne cuk ?	25,000 20,000 15,000 5,000 0	Timber	Proc	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years	
(d Quanti 173.Which one c (a) LERMS (b) EXIM so (c) EXIT p (d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla	ity of money is of the following - Rupee conve crips - Export si policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char adesh and Paki	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ?	gne cut ? 181.Whi	25,000 20,000 15,000 5,000 0	Timber	Proc Proc Proc Proc Proc	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr	
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char adesh and Paki s and SriLanka	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ?	181.Whi	25,000 20,000 15,000 5,000 0 ich proor r cubic	Timber Timber 97 98 9 duct had the meter over f	Proc Proc Proc Proc Proc Proc Proc	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr '-year period?	
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char adesh and Paki s and SriLanka and Nepal	exceeding the amount of god pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan	181.Whi	25,000 20,000 15,000 5,000 0 ich proor cubic Sawr	Timber	Proc	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr '-year period? Logs	rease in price
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a (d) SriLan	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char adesh and Pakis s and SriLanka ind Nepal ka and Pakistai	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre and the Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan	181.Whi (a)	25,000 20,000 15,000 5,000 0 ich proor r cubic Sawr Plyw	Timber 797 98 9 997 98 9	Proc Proc → 1arg the 7 (b) (d)	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Y-year period? Logs Cannot be determ	rease in price
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a (d) SriLan 176.The econom	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two of n Football Char adesh and Pakis and SriLanka und Nepal ka and Pakistan hic growth of ho	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan	181.Whi per (a) 182.T(be	25,000 20,000 15,000 5,000 0 ich prod r cubic Sawr Plywe maxim	Timber 97 98 9 duct had the meter over f n timber pod num increase	Proc Proc Proc Proc Proc Proc Proc Proc	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr '-year period? Logs Cannot be determ price per cubic meti	rease in price ined re for any
 (d Quanti 173. Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174. The tax which states is (a) Corport (c) Income 175. Which of the South Asian (a) Banglat (b) Maldivest (c) India at (d) SriLant 176. The economy Credit Rating Agg 	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two of n Football Char adesh and Pakis and SriLanka und Nepal ka and Pakistan hic growth of ho	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre and the Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan	181.Whi per (a 182.T(be)	25,000 20,000 15,000 5,000 0 ich proo r cubic Sawr Plywe e maxim oduct o	Timber 97 98 9 duct had the meter over f n timber pod num increase	Proc Proc → 1arg (b) (d) sucd	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Years cannot be determ price per cubic metric cessive years was	rease in price ined re for any
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a (d) SriLan 176.The econom	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char adesh and Pakista and SriLanka and Nepal ka and Pakistan hic growth of ho jency (ICRA) pr	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan	181.Whi per (a 182.T(be)	25,000 20,000 15,000 5,000 0 ich proo r cubic Sawr Plywe e maxim oduct o Rs	Timber Timber 97 98 9 duct had the meter over the timber bood num increase ver any two	Proc Proc → Iarg (b) (d) e in p succ (b)	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Years est percentage incr Years Cannot be determ price per cubic metic cessive years was Rs	rease in price ined re for any
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a (d) SriLan 176.The econom Credit Rating Ag year?	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char adesh and Pakista and SriLanka ind Nepal ka and Pakista hic growth of ho pency (ICRA) pr	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan	181.Whi ? 181.Whi per (a 182.T(be) pro (a)	25,000 20,000 15,000 5,000 0 ich proo r cubic Sawr Plywe maxim poluct o Rs 2,500	Timber Timber 97 98 9 duct had the meter over the timber bod num increase ver any two	Proc Proc Proc larg the 7 (b) (d) sucı (b) (b) (d)	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Years est percentage incr Years cannot be determ price per cubic metrices cassive years was Rs 3,125	rease in price ined re for any
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a (d) SriLan 176.The econom Credit Rating Ag year? (a) 8.4% (c) 7.9%	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char adesh and Pakistan adesh and Pakistan ic growth of ho pency (ICRA) pr (b)	exceeding the amount of god pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan n ow much per cent has the India redicted in the current fiscal 8.1%	181.Whi 2 181.Whi per (a 182.T(be) 183.I(c2	25,000 20,000 15,000 5,000 0 ich prod r cubic Sawr Plywe e maxim oduct o Rs 2,500 0 073 \$ th	Timber Timber 97 98 9 duct had the meter over the timber bod num increase ver any two) e total sales	Proc Proc larg the 7 (b) (d) e in p succ (b) (d) (d) s of th	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Y-year period? Logs Cannot be determ price per cubic metic cessive years was Rs 3,125 Rs company measu	
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a (d) SriLan 176.The econom Credit Rating Ag year? (a) 8.4% (c) 7.9% 177.GNP (Gross	ity of money is of the following - Rupee conve- crips - Export supplicy - Import of Export promotion ch is not shared ration Tax (b) e following two of a following t	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andthe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan n ow much per cent has the India redicted in the current fiscal 8.1% 8.7% uct) is the money value of	181.Whi ? 181.Whi per (a) an 182.T(be) pro (a) 183.I(c2) cut	25,000 20,000 15,000 5,000 5,000 0 ich prod r cubic Sawr Plywe e maxim oduct o Rs 2,500 0073; th pid2;006	Timber Timber 97 98 9 duct had the meter over the timber bod num increase ver any two e total sales des was made	Proc Proc larg the 7 (b) (d) e in p succ (b) (d) (d) s of th	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Years est percentage incr Years cannot be determ price per cubic metrices cassive years was Rs 3,125	
(d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174.The tax which States is (a) Corpor (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a (d) SriLan 176.The econom Credit Rating Ag year? (a) 8.4% (c) 7.9% 177.GNP (Gross	ity of money is of the following - Rupee conve- crips - Export supplicy - Import of Export promotion ch is not shared ration Tax (b) e following two of a following t	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan n w much per cent has the India redicted in the current fiscal 8.1% 8.7%	181.Whi per (a 182.T(be) 183.I(c2) 183.I(c2) an	25,000 20,000 15,000 5,000 5,000 0 ich prod r cubic Sawr Plywe maxim oduct o Rs 2,500 00Rs th pic2;000 d 30%	Timber Timber 97 98 9 duct had the meter over f n timber ood num increase ver any two e total sales des was mad logs.	Proc Proc Proc Proc Proc Proc Proc Proc	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Years est percentage incr Years cannot be determ price per cubic metr cessive years was Rs 3,125 Rs 3,125 Rs company measu odp1.26% plywood, 3	rease in price ined re for any ured in 30% sawn timber
 (d Quanti 173. Which one c (a) LERMS (b) EXIM sc (c) EXIT ((d) EPZ - 1 174. The tax which of the states is (a) Corport (c) Income 175. Which of the South Asian (a) Bangla (b) Maldives (c) India a (d) SriLan 176. The econome Credit Rating Agyear? (a) 8.4% (c) 7.9% 177. GNP (Grosssing) (a) Tangib 	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two adesh and Pakistan adesh and Pakistan is and SriLanka and Nepal ka and Pakistan ic growth of ho jency (ICRA) pr (b) c National Produce ole goods availa	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andthe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan n ow much per cent has the India redicted in the current fiscal 8.1% 8.7% uct) is the money value of	181.Whi per (a 182.T(be) an 183.I(c2) 183.I(c2) cut an Th	25,000 20,000 15,000 5,000 5,000 0 ich prod r cubic Sawr Plywe maxim oduct o Rs 2,500 00Rs th pic2;000 d 30%	Timber Timber 97 98 9 duct had the meter over f n timber ood num increase ver any two e total sales des was mad logs.	Proc Proc Proc Proc Proc Proc Proc Proc	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Y-year period? Logs Cannot be determ price per cubic metic cessive years was Rs 3,125 Rs company measu	rease in price ined re for any ured in 30% sawn timber
 (d Quanti 173.Which one c (a) LERMS (b) EXIM sc (c) EXIT ; (d) EPZ - 1 174.The tax which of the south Asian (a) Corport (c) Income 175.Which of the South Asian (a) Bangla (b)Maldives (c) India a (d) SriLan 176.The econome Credit Rating Agyear? (a) 8.4% (c) 7.9% 177.GNP (Grosss) (a) Tangib (b) Annua (c) Final g 	ity of money is of the following - Rupee conve- crips - Export si- policy - Import of Export promotio ch is not shared ration Tax (b) e Tax (d) e following two n Football Char adesh and Pakista and SriLanka and Nepal ka and Pakistan hic growth of ho jency (ICRA) pr (b) s National Produ- ole goods availa I service gener	exceeding the amount of goo pairs is not correctly matched ertibility ubsidy controls on d between the Centre andhe Sales Tax Central Excise Duty countries will jointly host the mpionship in 2007 ? istan n w much per cent has the India redicted in the current fiscal 8.1% 8.7% uct) is the money value of able in the economy	181.Whi per (a 182.T(be) an 183.I(c2) 183.I(c2) the to	25,000 20,000 15,000 5,000 5,000 0 ich proo r cubic Sawr Plywe e maxim oduct o Rs 2,500 00785 th bid2;7060 d 30% e avera	Timber Timber 97 98 9 duct had the meter over f n timber ood num increase ver any two e total sales des was mad logs.	Proc Proc	As 800 kg. duct Prices Plywood Sawn Timber Logs 00 01 02 03 Years est percentage incr Years est percentage incr Years cannot be determ price per cubic metr cessive years was Rs 3,125 Dascompany measu Dap126% plywood, 3 er cubic metre in 20	rease in price ined re for any ured in 30% sawn timber
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(c) 16,500 Rs

15,000

18

Rs

18,000

went up by 5%, 1% and 10%, respectively, and the total sales were made up of 40% plywood, 30% sawn timber and 30% logs. The average realisation per cubic metre in 2004 was

closegit to _{Rs 15,500}	(b) Rs 16,500
(c) Rs 14,500	(d) Rs 18,500

Directions (Qs. 185-188): These questions; are based on the (b) The amount of money invested in State-issued bonds. following pie-charts.

Total Investment Funds = 11 Crore 5 Lakh







Govt Bonds and securities



Municipal bonds

185. According to these graphs, approximately, how much money from the investment portfolio was invested in high-risk stocks?

- (a) Rs 98,00,000. (b) Rs 10,10,000
- (d) None of these (c) Rs 9,00,000

186. Approximately how much money belonging to the investment portfolio was invested in State-issued bonds?

- (a) Rs 4,50,00,000 (b) Rs 3,39,50,000
- (c) Rs 2,87,30,000 (d) None of these

- 184. In 2004, the prices of plywood, sawn timber and logs 187. Which of the following earned the least amount of money for the investment portfolio?
 - Government bonds and securities (a
 - State-issued bonds)
 - (b Municipal bonds
 - None of these

188. Which of the following was the greatest?

- (a) The amount of money invested in high-risk stock.
- (c) The amount of money invested in municipal bonds which yielded between 7% and 9%.
- (d) The amount of money invested in municipal bonds which yielded over 9%.

Directions (Qs. 189-192): These questions are based on the figu below. The diagram given here describes the percentage of readers in five states who purchase newspapers in English, Hindi and Urdu languages. Assuming the readers do not buy newspaper in any other language, the vertices of the triangle denote 100% and the opposite sides denote 0%.



A - Punjab	B - Rajasthan
C - Haryana	D - Delhi, NCR
F - Uttar Pradesh	

- 189. Which of the five states has the highest percentage of readers of Hindi newspapers?
 - (a) Rajasthan (b) Punjab
 - (c) Uttar Pradesh (d) Haryana

190.From the data provided above we can infer that

(a) Each reader can read newspapers in at least two languages.

(b) Each reader can read newspapers in only one of the languages.

(c) Each reader can read newspapers in the three languages discussed.

(d) Each reader can read newspapers in more than one language.

191. If UP has 25,00,000 newspaper readers and Rajasthan

has 15,00,000, how many more readers buy English

newspapers in UP than in Rajasthan (approximately)?

(a)	8,00,000	(b)	18,00,000
-----	----------	-----	-----------

• •	.,
(c) 12.00.000	(d) 3.00.000

192. About what percentage of readers in Rajasthan read Urdu newspapers?

(a) 10%	(b) 40%
(c) 50%	(d) 60%

(d) 60%

Directions (Q. 193-196): The graph below gives the data of the number of employees working in a company, the total expenditures of the company and the total salary paid to the employees by the company over the years. Study the graph carefully to answer these questions.

No. of employees of the company Total Expenditure of the company (in Rs lakh)
 Salary paid to the employees by the company (in Rs '0000)



193.What was the percentage increase in the number of employees of the company from 1995-96 to 1997 -98?

(a	21-	(b)	25%

(d) 16-67% 33%

194. Mithat 30 as the average number of employees who worked in the cast/pany over the given years?

(a)	185	(b)	19
(C)	235	(d)	5

195.What was the difference between the average of the total salaries paid by the compatity over the given years and the total salary paid by the company in the year 1997 -98?

(a	Rs 2,00,000	(b)	Rs
----	-------------	-----	----

Rs 4,00,000 (d) 2,50,000

196. The total expenditure of the scompany in 1995-96 was approximately what per cent off. 50 a Ostverage of the total expenditures of the company over the given years? (1) 0204 (b) 79%

(a)	82%	
1.5	700/	

)

)

(d) 87% (c) 76%

Directions (Os. 197-200): Study the following pie-charts carefully to answer these questions. Percentage of Students in a College, Studying Various Subjects and the Percentage of Girls out of these Total students: 1800 (1200 girls + 600 boys) Percentage of students in various subjects



Total Girls : 1200 Percentage of students in various subjects



- 197. The number of girls studying art in college is
 - 242 (b) 168 (a

)

(a

)

- (d) 276 120
- 198. For which subject is the number of boy the minimum?
 - (b) Biology ≬a) Law
 - (d) Maths (c) Arts
- 199. For Political Science, what is the respective ratio of boys and girls?

4:3	(b)	3:4	
-----	-----	-----	--

- 2:3 (d) 4:5
- 200. T(be number of girls studying art is what per cent more)than the number of boys studying art?

(a) 170%	(b)
(c) 80%	150%
	(d)
	250%

SOLUTIONS

12

- 1. (b)R + 3 \rightarrow U Similarly ; S + 3 \rightarrow V O + 3 \rightarrow R A + W + 3 \rightarrow Z 3 \rightarrow D A + 3 \rightarrow D
 - $D + 3 \rightarrow G$ $N + 3 \rightarrow Q$
- 2. (b) The pattern of the given series is as follows: 13 The first digit of each set is in ascending order. i.e. 6+2=8, 8+3=11, 11+4=15. In the same way the letters are also increasing. C is at the 3rd place in english alphabet. Similarly F is at 6th (+3); J is at 10th (+4) where as O is at 15th (+5) place. Now like the first digits the last digits are also asecending +3, +4, +5 respectively. Therefore the last set will be 15 + 5, 10 + 6, 19 + 6 = 20 ∪ 25.
 3. (b)



Hence, the school of Ram is to the north-east from his 14. house. A person sits on a chair. Since 'chair' is called ((co)t', our

- 4 (co)t', our (co)t', our
- PERFUNCTORY means 'Done as a duty or habit without real interest, attention or feeling. Above board 15.
 means lowful, legal, licit, honest.
- 5 means lowful, legal, licit, honest.6. (c)Mohan's Position = 9th from the top.

. Kiran's Position = (35 - 7 + 1 =) 29th from the top.

Sohan's Position
$$= \begin{bmatrix} -9+29 \\ -2 \end{bmatrix} = \begin{bmatrix} -1 \\ -2 \end{bmatrix}$$
 19th from the top.

Hence, Kiran's position is 10th from Sohan's position.

- (b) Here the specified letters are O,N,E,L and A. The meaningful word formed with these letters is A LONE. Hence the required middle letters of the word is 'O'.
- (d) One's brother's son's wife's daughter implies paternal grand-daughter of one's brother. Now, the mother of paternal grand-daughter of one's brother implies wife of one's nephew.

Thus, we can conclude that Arun is the paternal uncle of the female's husband.

9. (d) In others there is a gap of one letter between the first and the second letters of the group. 17.

10.	(c)A + 14 → O	W + 14 \rightarrow K
	B + 14 → P	$X + 14 \rightarrow L$
	$C + 14 \rightarrow Q$	$Y + 14 \rightarrow M$
	$D + 14 \rightarrow R$	$Z + 14 \rightarrow N$

- (c) The sister of one's mother is one's maternal aun't. Hence the man is the husband of the boy's maternal aunt.
- (a) 45°+180° = 225° clockwise direction 270° anticlockwise direction.
 - 225 270° = 45°



i.e., 45° anticlockwise from initial position. Hence, the required direction is south-west.

- (d) The day repeats itself after seven days. Third Wednesday falls on 15th of the month. Fourth Wendesday will fall on 22nd of the month. Fifth Wendesday will fall on 29th of the month. Fifth Friday will fall on 31st of the month.
- Present age of Ranjeev = x years
 Present age of Ranjeev's brother = (x + 6) years
 Present age of Ranjeev's father = (x + 6 + 32)years

- : Present age of Ranjeev's mother = (x+38 3) years = (x + 35) years
- \therefore Present age of Ranjeev's sister = (x + 35 25) years = (x + 10) years
- : Age of Ranjeev's sister when he was born = (x + 10 - x) = 10 years.
- (d) Let there were x persons in the party.
 - $\therefore x(x-1) = 600$
 - or $x^2 x 600 = 0$
 - or $x^2 25x + 24x 600 = 0$ or x(x - 25) + 24(x - 25) = 0
 - or (x 25) (x + 24) = 0
 - $\therefore x = 25$
 - or x = -24 But –ve sign is ignored

(a) Let there were x persons in the party.

So,
$$\frac{x(x-1)}{2}$$
 =105 or x2 - x - 210 = 0
or x2 - 15x +14x - 210 = 0 or x(x - 15) +14(x - 15) = 0
or (x - 15) (x+14) = 0
∴ x = 15or x = -14 But -ve sign is ignored
∴ x = 15

18. (d)



It is clear from above diagram Gopal and Ram are required pair.

19. (b) Sitting arrangement is as follows :

G1 B1 G2 B2 G3 B3 G4

1st 2nd 3rd 4th 5th 6th 7th

The number of boys are less than girls, so we should begin with girl.

20. (d) The series of given plants is as follows : Chiku Guava Mango, Mango Chiku Sitafal.... Hence, the required 30th plant will be Sitafal.



Let, AB is a tower and CD is a pole. $\angle ACB = 60^{\circ} & \angle ADE = 30^{\circ}$ Given, CD = 10 m& Let, BC = x m AE = h m $\therefore DE = x m$ In $\triangle AED$

tan 30° =
$$\frac{AE}{DE}$$
 or $\frac{1}{\sqrt{3}} = \frac{h}{x}$
 $\therefore x = h\sqrt[3]{m}$...(1)
Now, In $\triangle ABC$

$$\tan 60^\circ = \frac{AB}{BC}$$

$$\sqrt{3} = \frac{h+10}{x}$$

Putting the value of x from equation (1) we get

$$\sqrt{3} = \frac{h+10}{h\sqrt{3}}$$

22. (b)

Let, BC is the breadth of the river and AB is height of the tower and $\angle ACB = 45^{\circ}$ From the given option we have to find the relation between AB and BC.

In ∆ABC



or



Let, AB is the height of the tree and BC is the breadth of the river.

 $\angle ACB = 60^{\circ}$ and $\angle ADB = 30^{\circ}$ CD = 40mLet, the height of the tree AB = x m and the breadth of the river BC = y m In $\triangle ABC$

$$\tan 60^\circ = \frac{AB}{BC}$$
 or $\sqrt{3} = \frac{A}{3}$
...(1)

Again In ∆ABD

$$\tan 30^\circ = \frac{AB}{BD} \Rightarrow \frac{1}{\sqrt{3}} = \frac{x}{y+40}$$

Putting the value of x from equation (1) we get

$$\frac{1}{\sqrt{3}} = y \sqrt[3]{+40} \qquad or 3y = y + 40$$

$$\therefore y = 20 \text{ m}$$

24. (c) The required probability

$$=\frac{1}{4} \times \frac{1}{5} \times \frac{2}{5} = 0.02$$

25. (d) The required probability

$$\frac{{}^{5}C_{2}}{9} = \frac{10}{36} = \frac{16}{36} = \frac{4}{9}$$

26. (b)West Indies Possible score 1st Match Case 2nd II Match Т Case CaseIII CaseIV 1 2 2 CaseV 1 Australia 2 2 2 2 Possible score 2 2 1st 2nd Required Match Probability Match 22⇒0.05×0.5×0.5×0.5 Case I 22⇒0.5×.05×0.5×0.5 Case II 2 1⇒ 0.5× 0.5× 0.5× .05 CaseIII CaseIV 1 2⇒ 0.5× 0.5× .05× 0.5 CaseV $2 2 \Rightarrow 0.5 \times 0.5 \times 0.5 \times 0.5$ Total probability = 0.0875 27. (c) The required probability = $\frac{{}^{5}C_{2}}{{}^{13}C2} + \frac{{}^{8}C^{1} + 5C^{1}}{{}^{13}C2} = \frac{5 \times 4}{13 \times 12} + \frac{8}{13} \frac{5 \times 2}{13}$ 20 + 80 $=\frac{13 \times 12}{39}$ 28. (c) Suppose there are 100 candidates for entrance. No. of capable candidates = 40And of incapable candidates = 100 - 40 = 60Now, no. of capable candidates who pass the tesAfternati 80% of 40 = 32 No. of incapable candidates who pass the test = 25% of 60 = 15 Note that these successful candidates become collage students. Thus, there are 32+15 = 47 collage students in all, of which 32 are capable. Hence, Proportion of capable collage students $=\frac{32}{47} \times 100 = 68\%$ 29. (b) Total candidates = 2000 Boys candidates = 900 : Girls candidates = 2000 - 900 = 1100 Failed boys candidates = 68% of 900 $=\frac{68 \times 900}{100}$ =612 Failed girls candidates = 62% of 1100 $=\frac{62\times1100}{100}=682$... Total failed candidates = 612 + 682 = 1294 \therefore Percentage of failed candidate $\frac{1294}{2000} \times 100$ = 64.7%

30. (c) Let, the salaray of an officer = Rs. x

Amount left after house rent = x - 10% of x

= 90% of x =
$$Rs_{10}^{9x}$$

Amount left after children's education

$$= \frac{9}{10} -15\% \text{ of } \frac{9}{x} = 85\% \text{ of } \frac{9}{x}$$
$$= \frac{85}{100} \times \frac{9x}{10} = \frac{1}{0} = \frac{1}{0}$$

=Rs. 200

Amount left after spending on cloths =

$$\frac{153x}{200} - 10\% \text{ of } \frac{153x}{200}$$

$$= 90\% \text{ of } \frac{153x}{200}$$

$$= \frac{90}{100} \times \frac{153x}{200}$$

$$= \text{Rs.} \frac{1377x}{2000}$$

$$\therefore \frac{1377x}{2000} = 1377$$

$$\therefore \text{ His salary} = \text{Rs. } 2000$$

$$\text{ve : His salary}$$

$$= 100 \text{ His salary}$$

$$= 137 \frac{100}{100-10} = 100 =$$

(b)We know that if price increases by x% then required

per cent decrease
$$= \frac{x}{100 \times 100\%} \times 100\%$$

 $= \frac{30}{100 \times 30} \times 100 = \frac{300}{13} = \frac{300}{13} = \frac{23}{13} \frac{1}{13}\%$

32. (a) The price of the single ticket
$$\frac{84}{105} \times \frac{100}{1} \times \frac{10}{0}$$

= Rs. 64.

31.

$$A = P \begin{bmatrix} 1 + \frac{R}{100} \end{bmatrix}^{"}$$

or 540 = P + $\frac{20}{100} \end{bmatrix}^{2}$
or 540 = P × $\frac{6}{5} \times \frac{6}{5}$

5

$$P = \frac{540 \times 25}{36} = 375 \text{ cm}.$$

- 34. (d) Total mixture = 40 liters Water present in mixture = 10% of 40 = 4 litres Let, x litre water is added to the mixture
 - $\frac{4+x}{40+x}$ 100=20

400 + 100 x = 800 + 20 x or 80 x = 400 or x = 5 litres

(d)Amount of alcohol in 9 ml lotion = 50% of 9

Let, x ml water is added to the solution.

$$\therefore \frac{4.5}{9 + x} \times 100 = 30 \quad \text{or,} \quad 45 = 27 + 3x$$
$$\therefore \quad x = 6 \text{ ml.}$$

36. (c)



20 :

...

:1 Percentage of passed candidates

$$=\frac{5}{(5+1)}$$
 × 120 = 100

37. (d)Measure of 6th observation = Total measure of 11 observations- (total observations of 1st five observations + total observations of last five observations)

=11×90-(5×87 5+×84)

38. (a) Let the original strength of the class = x

$$\frac{x \times 40 + 12 \times 32}{x + 12} = 40 - 4$$

o
$$\frac{40x+384}{x+12} = 36$$

r $40x+384 = 36x+432$
 $40x-36x = 432-384$
o $4x = 48$
r $x = 12$
p

- 39. (c) Let average age of 8 person = x years and average age of 2 women = y years. Total age of 8 person = 8x years & total age of 2 women = 2y years 8x + 2y - (5 + 45) = x + 28 8x + 2y - 80 = 8x + 16or 2y = 96∴ y = 48 or Hence average age of two women is 48 years.
- The number of police involved $\frac{3}{5}$ ×135=81 40. (d)

Required number of supporters = 81×9 = 729 41-44. Let weight of article C be x

According to question, weight of all iron article is as follows :

Α	В	С	D	Е
9x	4.5x	х	2	4×

- 42. (c) 43.(b) 44. (c) 41 (a
- The prices of gold may vary due to any reason)
- but not necessarily due to the prices won in 45 (a
 - designing gold)
- ornaments. 46. (b)
 - The ministers and officers are working towards

improving the relationship between the two 47. (d) countries

- only after the prime minister's decision to improve the bilateral liasion (relation) the slashing of prices
- may invoke some interest in the field of computer 48. (d) but the main reason behind learning this skill has to be academic interest. The fact that the bank has completed its 25 years will assure the customers of its dependability but customer
- 49. (a) will mainly be attracted because of services and
 - profitable schemes. (c)
- 50. The Speed Swimming Gear company has persuaded
- (d) 51. Roy to be photograph in their goggles which obviously suggests that they were confident of his

52. (b) victory. Instead of cautioning him Roy's coach predicted his comfortable win. Roy may well have lost due to his bad performance and not because of any external element. The fact that Roy has

- 53 (a) won his last five races and was thought to be an outright winner but he still lost it (b)
 - comprehensively recording his worst time ever
- 54 55. (d) indicates that the match could have been fixed.
 - The statement is clearly the blend of both the assumption. The assumption (II) is almost same as statement how ever (I) is wrong since there are many things that we study but fail to understand. Statement 'all birds are (dogs') (ype-A) and statement 'some dogs are cats' (ype-I) does not give any conclusion.

56	(d)Mohan is an Indian does not prove that he is honest of dishonest.	or	
57	(d)Since 25% candidates have qualified that means atleat those must have fulfilled one of the criteria of having secured 35% and above in each of the subjects.	ast	
58.	(b) s mentioned that food was stored in open for almost twelve hours hence stale food could have been the reason behind the disaster.	90.	(c)
59.	(d)e use of word 'hassle-free' suggests that the company assumed that people seek convenience and comfort.		
60.	(d)e flats are constructed for the middle class and if the prices are higher then it is obvious that they are not going to buy it.	91	(a)
61	(c) (d	-	(a)V
62)	•	flee
	(b	92	the
63)		eve
	(a		art
64)		ехр
	(a	93.	(cal))th
65)		fore
66	(a		and
66) (d		mos stat
67)	94.	(appe
) (b	01.	con
68			On
	(d	95.	(ian)d
69)		the
	(c)		eve
70	(C)	~~	and
71	(b) The growth of Indian stack industry and its rank.	96.	(ap)a
71) The growth of Indian steel industry and its rank (b among other steel-producing nations are both		of p
72) stated in the first paragraph itself.		trag rect
82.	(b)The fact that I I S I has projected 4.9 % growth in the	•	four
73	global demand for steel is mentioned in the first	97.	(da)j
	çalragraph.		the
83	The answer of this question comes right after the		and
	on the second se	98.	((d)€b
85	Option (b) and (c) are stated towards the end of first		stro
	(taragraph where as, (a) is stated in the last paragraph,		prot
76	however 12.5 million tonnes mentioned in the option	00	diffe
85.	(b) is not the projected enhancement. (d) fact that only Rs. 6000 crores has been spent	99.	(pdre prop
ωυ.	(astead of Rs. 20,000 crores required for fair.	100.	
78	The implementation of N.R. E. G – clearly suggests	100.	dec
	(hat it has not been fair. The other two options are		í an
79	mentioned in first paragraph.		Зу а
86	(d) and (c) are mentioned in second paragraph whereas	s101.	(d)
80	(d) is clearly written in first paragraph.		
87	(10)e answer can be found in second paragraph.		
81	(ti)s the first sentence of the fourth paragraph.		
88	The close perusal of the first paragraph gives us this		

88 The close perusal of the first paragraph gives us thisanswer. The two sentences that form this conclusion89

are: (a) ---- from sensation, memory is produced---(first paragraph); (b) 'Now from memory, experience is produced in men'. (first paragraph) while the other options (a), (b) and (c) are also stated but they do not help in understanding relationship between sensation and memory. "For

- (c) men of experience know that the thing is so,but do not know why, while the others know the 'why' and the cause." (Second paragraph). The word 'others' in the above sentence means artists, the men of wisdom. Hence (c) is the answer. Consequently (a) and (d) are automatically proved wrong while (b) does not define the difference. The answer is
- 1 (a) quite obvious in the first few sentences of fourth paragraph.

(a)While the other three options are mentioned fleetingly at some place or the other, the main thing is

- 2 the relationship between art and experience which eventually tells us that experience gives rise to art but art defines the 'causes', the 'why' behind things which experience fails to do. After getting acquainted with the
- 93. (d)thor's deep concern for the pathetic condition of forests and indifference of the ministry of environment and forests, it is not tough to assume that the author is most likely to agree with all the three options. It is stated fourth paragraph onwards that india lacks
- (a)ecialists in this area and the government can work in concomittance with pathogenists only when they exist.
 On the contrary to what is given in (a) the researchers
- 95. (ind) it even more difficult to track the new aspects of the same disease due to micro climatice changes every year. (seventh paragraph) (a) consists of both (a) and (c). According to passage the lack of scientist,
- and 'convection current' theories may be true, however
 3. (depending upon the material" is added to it which strongly hints towards(d). The root cause behind the problem according to the passage lies with the difference in the size of grains. Paragraph five:
 9. (pressure exerted at the bottom increases in direct proportion to the liquid's height". As the liquid (water)
- 100. (bickles down, its height decreases hence, the pressure blecreases. Let, the number of passengers travelling by I and II class = x and 50x and, fares of I and II class = 3y and y.
 - ∴ x×3y + 50x×y = Rs. 1325 53xy = 1325

$$\begin{array}{c} \therefore & yr = \frac{1225}{53} = 25 \\ \Rightarrow \text{ Arount collected from the licitss passengers = 50y} \\ (2 = 6x + 20x + 25 + 8) = 1250, \\ (3 = 6x + 20x + 25 + 8) = 1250, \\ (3 = 6x + 20x + 25 + 8) = 1250, \\ \hline 8 = 0x + 20x + 250, \\ \hline 8 = 0x + 20x + 250, \\ \hline 8 = 0x + 20x + 250, \\ \hline 8 = 0x + 20x \\ \hline 8 = 0x + 20x \\ \hline 8 = 0x + 20x \\ \hline 8 = 0x + 20x \\ \hline 8 = 0x + 20x + 2$$

-ve sign denotes that 3rd tap empty the tank.

Since, 3rd tap empty opart of the tank in 1 min

$$\therefore \quad 3\text{rd tap empty the full tank} \inf_{7}^{60} \min = \frac{84}{7} \min$$
$$= 8 \min 34 \text{ seconds}$$

110. (b)Work done by waste tap in 1 min $\frac{1}{20} - \frac{1}{12} + \frac{1}{15}$

 $= -\frac{1}{10}$ part

- ve sign denote that waste tap empty the tank.

Since, waste tap emptopart of the tank in 1 min

∴ Waste tap empty the full tank in 10 min.111. (a) The two filler tap can fill the tank in 1 min

 $=\frac{1}{20}+\frac{1}{30}=\frac{1}{12}$

 $\begin{array}{ccc} \vdots & \text{The two filler tap can fill the tank in 12 min.} \\ \text{Half of the tank will be filled in 6 min.} \\ \begin{array}{ccc} 118 \\ \text{Hence, it took (24 - 6 = 18 min) to fill the remaining half} \\ \text{of the tank when the outlet pump is opened. Thus, the total time required to empty half of the tank} \\ \end{array}$

$=\frac{18\times6}{18-6}=1\frac{8\times6}{12}=9$ minutes

Thus, capacity of the tank =100×9×2=1800litres^{119.(a)}

112. (b)LCM of 54 and 45 = 270

Let, distance = 270 km Without stoppage, time taken in the whole journey

=270 -54 = 5 hours.

With stoppage, time taken in the whole journey

stoppage per hor $=\frac{1}{6} = 10$ min.

113. (a)When the two trains meet, distance between the trains will be zero. Therefore distance from the both trains of any place on the way will same. Therefore, when trains meet both are equidistant to Rampur.

114. (d)We have,

$$\frac{n}{2} \square 2 \times 40 + (n^{-15}) \square = 3850 \cancel{2} (80 + 5n - 5) = 3850$$

or 80n + 5n2 - 5n = 770 or 5n2 + 75n - 770 = 0
 \therefore n = 7 hrs.

115. (c) Let the weight of tea worth Rs 25 per kg = x kg. According to question

110% of $\frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} = 30$ $\underset{ar}{\text{or}} \frac{110}{100} \underbrace{25x + 900}_{x + 30} = 30$ or 11 (25x + 900) = 300 (x+30) or 275x + 9900 = 300 x + 9000 or 25x = 900.... x = 36 kg.116.(b) Let, weight of sugar costing Rs 5.75 per kg = x kg $x \times 5.75 + 75 \times 4.50 = 5.50 \times (x + 75)$ 5.75x + 337.50 = 5.50x +or 412.50 5.75x - 5.50x = or 412.50 - 337.50 0.25x = 75 or ... x = 300 kgLet number of officers = x117.(a) Number of workers = (400 - x)... Now, $400 \times 3000 = x \times 10$, $000 + (400 - x) \times 2000$ Hence, officer = 50 \therefore x = 50 \therefore worker = 350 Alternative : Except option (a), others show total number of employees to be more than 400. Let, time taken by bus in the journey = t hours 118.(a) Then, time taken by train in the journey = (6 - t) hours now. $40 \times t + 55 (6 - t) = 285$ 40t + 330 - 55t = 285 $15x = 45 \therefore x = 3$ Hence, distance travel by train = $3 \times 55 = 165$ km Let, amount of salt added = x kgAmount of salt in solution = 2% of 30 = 0.6 kg Now, $\frac{0.6+x}{30+x} \times 100 = 10$ х

$$6 + 10 x = 30 +$$

 $9 x = 24$
 $x = 8 = 22kg$
 $3 3$

120. (c) Let, speed of train = x km/hr

Relative speed while crossing 1st person $\frac{1}{18}(x-3)$

Distance = length of train =5(x-3)×9
$$\frac{18}{18}$$
 ... (I)

Relative speed while crossing 2nd person

Distance = length of train $\frac{5}{10}(x-6) \times 10 \cdots (11)$

From equation (I) & (II) we get

$$\frac{5}{18}(x-3) \times 9\frac{5}{18}(x-6)10$$
 or $9x - 27 = 10x - 60$
x = 33 km/hr

121. (a) Both statements (A) and (B) together are sufficient tb32. (c) The ratio between the average rainfall in May and answer the question. January $\frac{=2.4=6}{0.4}$ Required earnin = 3, 40, 000 $\times 3^{2} \frac{2}{100}$ = Rs 20, 400 The ratio between the average rainfall in April and 122. (b) Statement (B) alone is sufficient February $=\frac{2.8}{1.4}=\frac{2}{1.4}$ w x y z = 6zw x y = 66 > 2. 123. (c) Statement (A) alone is sufficient. 133. (d) Required population of the country AD in the year 2006 2D>2E>2C $\frac{7100 \times 10,000}{0.8} = 88750000$ D > E > C. 124. (d) Each statement is sufficient by itself to answer the question. i.e., 88750 thousand. It is clear from the table AG From A: 134. (a) is the first and N is the second because their numbers of cases are 21,861 and 1862 Required time $=15 \times 20 = 300 = 84$ hours. 15+20 35 7 respectively. Because the number of cases of M, T and AJ is 135 (d) From B: very Ratio of the efficiencies of Sanjay and Mohit = 4 : 3 (c) less. \therefore Required time to finish the work by Sanjay and Mohit (d) It is clear from given table. The required ratio = 6:6 = 1 + 1 = 72895 - 61615together = $\frac{15 \times 4}{4 + 3} = \frac{60 = 84 \text{ hours.}}{7}$ 136 (d) Required percentage increase $\frac{-72095-010}{61615}$ If x = -2125. (c) then, $3x^2 + 2x - 1 = 3(-2)^2 + 2(-2) - 1 = 7$ =1128061615 = 0.18137 x3 + 2x2 + 1 = (-2)3 + 2 (-2)2 + 1 = 1 and 138 A > B c ... (d Titanium oxide. It is obvious from table. 139а Highly volatile organic chemicals among the ten) а 140 (b - = -126. (a) organic chemicals are. +b c +d) 1. Fatty Acids ac + bc = ac + ad2. **Xylene** = adcb 3. Aniline 127. (b) The original price before mark-up 4 Ethylene Gylcol 5. Benzene. $=\frac{47.25\times100}{100}=45$ 141. (a) (c) is obviously wrong, the second part of (b) does not 105 fit as the pipe smokers are not 'responsible'. (d) is Hence, 45 > 44.89 incorrect because rejoinded means reply or retort. B > A142. (b) (a) is wrong since overdrawing is definitely not an 128. (a) The ratio of girls wearing spectacles to those who aspect of art. (c) cannot be held true since Indian art donot. cannot be accused of imitation and one form of art can never be judged superior or inferior to other. Among $=\frac{25\%0f300}{300-25\%0f300}=\frac{75}{225}=\frac{1}{3}$ (b) and (d), (b) fits better as it supports the later part of sentence as well. 129. (c) The ratio of rainfall between the months. The answer is obvious since the other options are week 143 (a) as one or other word doesnot fit at all. February and July = 1.4 : 2.0 = 7 : 10 Prognostications means prediction. One may be (d) Here $\frac{7}{10} > \frac{2}{3}$ declared optimistic only when one doesnot take heed of upleasant situations. (a) is wrong because if a report 130. (b) The average monthly rainfall recorded for the 7months $\frac{144}{130}$ is malicious there is no chance of benefit. (b) is wrong since sanguinary means violent and a report cannot be $=0.4+1.4+2.2+\frac{2.8+2.4+1.4+2=}{7} \frac{12.6}{7} = 1.8$ violent by any means. (c) is wrong because if the analysis is not pessimistic then what is the point of Here 1.8 < 1.9 boisting of being optimist. The passage is clearly about 'abstraction' therefore 145. (c) 131. (3) $12\frac{1}{2}$ % of 12.6 = 1.576 (D) must be the first sentence with rules out (a). Now (b) is also wrong because ever since this discovery must come after defining which discovery (C) so we

Rainfall during Febraury = 1.4 1.576 > 1.4

have (C) (B) as a sequence. So (d) is also ruled out.

- 146. (c) The passage is about accomodation theory which implies that (A) must be the first in the row which rules. (b) out (a) and (b). Now (d) is considered wrong since the examples in (B) are of subtle adaptation which lies in (C). Hence, (C) (B) is the sequence.
- (a) and (d) begin with (C) which starts with 'Thus' which 147. (b) cannot be the first sentence of the passage. (c) is wrong since jumping straight to 'fossil evidence' and then coming again to adaptation renders in congruity to the passage. 182. (a)
- 148. (a) (D) comes after (B) since 'it' in (D) alludes to the term 'bear market' in (B). So (B) (D) as a sequence leaves only (a) and (d) to chose from (A) is an explanation of (C), Hence (A) comes after (C) which rules out (d) as 183. (c) well.
- (a) is wrong since it gives a different measring to the 149. (d) sentence which is unwarranted. (b) has incoherence of participles which is sorted out in (d). 184. (b)
- 150 (a (b) and (d) are also correct but still (a) seems the best suited sentence.)
 - The pronoun 'one' is perable to 'you' so, (a) and (c) are (d ruled out. Now (d) is chosen over (b) because (b) is
- 151 unnecessarily complicated due to words like "the comprehension of" and 'analysing'.
- 'Entrusted upon' (c) and 'entrusted' within (d) do not 85. (a) Required investment in high risk stocks 152. (a) fit here as when you are 'entrusted with' (a) some thing you are given its responsibility, like what Panchayats are there for.
- 'Led us to proper' is simply better suited than 'led us the compared investment 153. (a) prayer'. Hence the choice comes down to (a) and (b), out of which (a) clearly stands out since the 2nd parts of (b) donot complement each other.
- 154. (b)With Anyone we cannot associate you so, (c) is out.¹⁸⁷ (d) Now (b) is simply more clear and close to the original 188 sentence in meaning than (d) and (a).
- 155. (b) and (d) are wrong because they differ from the meaning of original sentence. (c) is wrong because how 189money makes you unhappy can be accepted not this **190**. (c) one.
- 156. (Talhey' is wrong so, (b) and (c) are marked out. (d) is also wrong because those maintaining is definitely not 192. (a) the best possible way to go about it.
- (ta)s doesn't come with plural forms. It needs to be 157 193. (e)placed with 'have'.
- (bshould be formed like : "when they want to tell the 158)ruth, Indians have an amazing way of doing so."
- 159 It makes little or no sense. It could be formed as:
- "Addressing infrastructure gaps, therefore, needs to be our topmost priority.
- 160 Properties to should be used in place of 'for'.

	(a)	162	(C)	163	(C)	164	(C)
161	(a)		(b)		(C)		(d)
	(b)	166	(C)	167	(C)	168	(b)
165	(C)		(b)		(b)		(b)
	(C)	170	(a)	171	(C)	172	(d)
169							
		174		175		176	
173							
		178		179		180	
177				•			

Logs
$$=\frac{7000-}{4000} \times 100 = 75\%$$

Plywood $=\frac{20000-1400 \otimes 100}{14000} \approx \frac{426\%}{7}$

Price per cubic metre of plywood in 2002 = 17500 Price per cubic metre of plywood in 2003 = 20,000. ∴ Required increases = 2500

$$7000 \times \frac{11}{100} \times \frac{30}{100} \times \frac{1000}{100} \times \frac{1000}{100}$$

$$\frac{11,0500000\times8.9}{100} = \text{Rs 98, 34,500}$$

$$\frac{11,05,00,000 \times 48.3 \times 26}{100} = \text{Rs 1, 38, 76, 590}$$

High-risk stocks (8.9%)

- (C) It is clear from 2nd and 3rd pie - charts.
- (a) Rajasthan (50%)

=

(C) Percentage of none of the newspapers is 0%. Hence cach reader can read newspaper in the three languages

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$$\frac{25,00,000 \times 75}{100} - 15,00,000 \times \frac{50}{100}$$

= 18,75,000 - 7,50,000 =
11,25,000 It is clear from the
given diagram.

(d) Required per cent increase
$$175-150 \times 100$$

150

$$=\frac{25}{150} \times 100 = \frac{16}{3} 2\%$$

194. (a) Required average number of employees

$$= \frac{150+125+175+225+250}{5} = \frac{925}{5} = 185$$
195. (a) Required difference in Rs '0000
$$= \frac{50+75+100+125+250}{5} - 100 = 120 - 100 = 20$$
Rs 2, 00, 000.

		300	×1
196. (d) Required per o	cent <u>300+3</u>	25+350+	350+400^1
		5	
	= <u>300</u> = 345 ×10)0	%≈87%
197-200.		23	
Subjects	Studen	ts Girls	Boys
Art 216	168	48	66
Biology	234	168	150
Law360	360	Nil	66
Computers	270	120	270
Maths	90	24	600
Political Science	630	360	000
Total	1800	1200	

197.(b)Required no. of girls = 14% of 1200 = 168.

100 198. (a) Total no. of students in Biology $= \frac{1800 \times 13}{100} = 234$ No. of girls = $1200 \times 14 = 168$: No. of boys = 234 - 168 = 66. Now, total no. of students in Arts = $\frac{1800 \times 12}{100}$ = 216. No. of girls = 1200×14=168 100 : No. of boys = 216 - 168 = 48. 199 (b 270: 360 = 3:4 Required percentage $\frac{168-48}{48} \times 100 = 250\%$.) 200 (d

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