## CAT FULL LENGTH TEST 3

#### Time:120 minutes

No. of questions:185

Directions for questions1 to 3: Each of the sentences below has a bland space indicating that something has been left out. Following each sentence, four choices are given, numbered 1 to 4. Select the appropriate choice that makes the sentence most meaningful.

1. At its next meet the committee and about starting a new project	eting e expected to consider		
0 1	0 2	03	0 4
2. As he lay at t he hoped that his friend would come on time	he death's floor		
0 1	0 2	03	6 4
3 The misfortune than of Mr B though he does n speak much	of Mr A is greater ot		
01	0 2	03	◎ 4

Directions for Qs 4 to 12 Each of the sentences given below has one or more blank spaces in it. Following each sentence four words/ set of words are given.Choose the word/ set of words that makes the sentence most meaningful.

4.	Human history is large	ely a record of faltering	, of complacent surre	nder to
0	effort, circumstance	🔘 ego, enemies	steps, self	🔘 attempt, Lord
5.	His irresponsible and $\_$	behaviour invited	d observations on	his mental ability
0	puerile, positive	🔘 favourable, childish	careful, glowing	adult, adulatory
6.	The rationale	of civilisation is the	_ of fuller, richer and more	e abundant life
0	ultimate, promotion	Iltimatum, induction	intimate, conception	$\bigcirc$ superior, injection
7.	When somebody talks	or acts, we say h	e is mentally	
0	illogically, deranged	🔘 logically, upset 🔘 co	onsistently, unbalanced	madly, advanced
8.	A country, tribe or fan	nily ruled by a man or male	e heirs is called	

patriarchy	matriarchy	monarchy	hierarchy
9. Radar is	for 'Radio Detection and F	Ranging'	
acronym	synonym	antonym	homonym
10. It was a	worth celebrating with a	bonfire	
🔘 bonanza	Ø disaster	carnival	affair
11. The of t	the agreement led to	results	
infraction, detrimental	refraction, bene	eficial © extraction, sentimental	🔘 revolt, violent
12. She was overco	me with a wave of	whenever she thought o	of her childhood in Bihar
🔘 nostalgia	🔘 nausea	frustration	regret

# Directions for questions 13 to 15 :- Rearrange the sentences A, B, C, and D to form a logical sequence between sentences 1 and 6.

13. In former days, a teacher was expected to be a man of exceptional knowledge or wisdom, to whose words men would do well to attend.

A. Socrates was put to death and plato is said to have been thrown into prison, but such incidents did not interfere with the spread of their doctrines.

B. In antiquity, teachers were not an organised profession and no control was exercised over what they taught.

C. Any man who has the genuine impulse of the teacher will be more anxious to survive in his books than in the flesh.

D. It is true that they were often punished afterwards for their subversive doctrines. 6] A feeling of intellectual independence is essential to the proper fulfilment of the teacher's functions.

BADC

ACBD



14. Indian thinkers have given much attention to the subject of peace.

A. Though the mind is very subtle and it is difficult to discern its contents, its effects can be seen on the body.

B. Again, it is the mind itself that causes peacelessness.

C. According to our state of mind, we laugh or weep or become peaceful.

D. Peacelessness is a state of mind, but to study it, we need to use the mind itself.

6] Depending upon its purity and calmness, it can organise all the sense impressions on the one hand and on the other, reflect the ' kingdom of God ' within.

DACB

DBAC

CDAB

BACD

15. There is only one way to learn social habits: by living a life in which such habits automatically develop.

A. In them the egotist is discouraged; the individualist discovers the existence of other individuals and learns how to fit in with them.

B. Live in a society and in most cases, you will become a social being.

C. Boarding schools, like everything else, have their defects, but they do train people to be members of a society.

D. That is the secret of the British boarding school, the finest factory of citizenship in

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existence.

6] A boy finds himself a member of something greater than himself and learns loyalty and service to it.

BDCA	O DCBA	BACD	CBDA			
Directions for questions 16 to 18 : In each of the following questions a phrase is highlighted followed by four different ways of rephrasing the highlighted part. Choose the correct alternative.						
16. I have worked ha	rd enough now, its tim	e I <b>gave way to som</b>	eone else.			
🔘 call it quits	appointed an heir	stepped down	none of these			
17. Mr Kaluram was <b>t</b> for the future.	<b>thinking aloud</b> on the	implications of the me	echanism			
◯ talk in ◯ ut public thoug	ttering his 🛛 🔘 h Jht think		carefully and planning			
	tries not to shake the <b>ages to the understa</b>		n man <b>but to</b> philosophical meaning behind his			
but to leading them through stages.		but to lead him by stages.	but to effect them vis-a-vis stages.			
below has a bland s sentence, four choic		something has been ered 1 to 4. Select th	left out. Following each le appropriate choice			
19. In most developi	ng contries, research a	and development effor	ts areby their absence.			
🔘 obvious	🔘 conspicuous	🔘 clear	minimised			
20. Being highly	to criticism, he has	kept his stories unput	olished.			
susceptible	sensible	sensitive	vulnerable			
21. For taking retirer	ment, he has made	his business to his	two son			
🔘 for	over	🔘 off	O out			
22. He is said to be a	s poor as					
🔘 job	🔘 a church-mouse	🔘 croesus	a scarecrow			
23. This is a group in	nsurance policy, in favo	our of the workers,	accident or injury.			
◎ for	🔘 on	in 🔘	against			

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🔘 on pain	🔘 in pain 🦚	🖻 on pains 🛛 🔘 u	under pains			
Directions for questions 25 to 30: For each question below are given four different spellings of a word. Choose the correct spelling and mark the answer at						
the appropriate spa	ace on the answer shee	et.				
25. 🔘 gratuitous	gratutious	gratutous	gratuteous			
26. 🔘 ephimeren	ephemoren	ephemeron	ephime			
27. 🔘 mispelt	mispelled	misspeld	🔘 misspelt			
28. 🔘 tableau	🔘 tablue	🔘 tablaeu	🔘 tabloeu			
29. 🔘 liquiscent	liquescent	🔘 liquecent	🔘 liquicent			
30. 🔘 pneumactic	🔘 neumactic	pneumatic	pnuematic			
•		h question below are gi correct spelling and ma				
the appropriate spa	ace on the answer shee	et.				
31. 🔘 endeovour	endeavour	<pre> endevour </pre>	<pre> endevor </pre>			
32. 🔘 rythemic	rhythmic	rhythemic	🔘 rythmic			
Directions for questions 33 to 38: In each question below, a capitalised word is followed by four words or phrases numbered 1 to 4. Select the word most nearly opposite to that word.						
four words or phras	ses numbered 1 to 4. So	elect the word most ne	arly opposite to that word.			
four words or phras	ses numbered 1 to 4. S	elect the word most ne	arly opposite to that word.			
-	Ses numbered 1 to 4. So	elect the word most ne	<ul> <li>bumpkin</li> </ul>			
33. YOKEL						
33. YOKEL						
33. YOKEL Sophisticate 34. NAÏVE	farmer	simpleton	O bumpkin			
<ul> <li>33. YOKEL</li> <li>sophisticate</li> <li>34. NAÏVE</li> <li>harmless</li> </ul>	farmer	simpleton	O bumpkin			
<ul> <li>33. YOKEL</li> <li>sophisticate</li> <li>34. NAÏVE</li> <li>harmless</li> <li>35. DOVE</li> </ul>	<ul><li>farmer</li><li>artful</li></ul>	<ul><li>simpleton</li><li>effective</li></ul>	<ul><li>bumpkin</li><li>fashionable</li></ul>			
<ul> <li>33. YOKEL</li> <li>sophisticate</li> <li>34. NAÏVE</li> <li>harmless</li> <li>35. DOVE</li> <li>predator</li> </ul>	<ul><li>farmer</li><li>artful</li></ul>	<ul><li>simpleton</li><li>effective</li></ul>	<ul><li>bumpkin</li><li>fashionable</li></ul>			
<ul> <li>33. YOKEL</li> <li>sophisticate</li> <li>34. NAÏVE</li> <li>harmless</li> <li>35. DOVE</li> <li>predator</li> <li>36. FOREBEAR</li> </ul>	<ul> <li>farmer</li> <li>artful</li> <li>miser</li> <li>beneficiary</li> </ul>	<ul><li>simpleton</li><li>effective</li><li>hawk</li></ul>	<ul> <li>bumpkin</li> <li>fashionable</li> <li>interventionist</li> </ul>			
<ul> <li>33. YOKEL</li> <li>sophisticate</li> <li>34. NAÏVE</li> <li>harmless</li> <li>35. DOVE</li> <li>predator</li> <li>36. FOREBEAR</li> <li>resist</li> </ul>	<ul> <li>farmer</li> <li>artful</li> <li>miser</li> <li>beneficiary</li> </ul>	<ul><li>simpleton</li><li>effective</li><li>hawk</li></ul>	<ul> <li>bumpkin</li> <li>fashionable</li> <li>interventionist</li> </ul>			
<ul> <li>33. YOKEL</li> <li>sophisticate</li> <li>34. NAÏVE</li> <li>harmless</li> <li>35. DOVE</li> <li>predator</li> <li>36. FOREBEAR</li> <li>resist</li> <li>37. ON THE CONTRANCE</li> </ul>	<ul> <li>farmer</li> <li>artful</li> <li>miser</li> <li>beneficiary</li> </ul>	<ul> <li>simpleton</li> <li>effective</li> <li>hawk</li> <li>progeny</li> </ul>	<ul> <li>bumpkin</li> <li>fashionable</li> <li>interventionist</li> <li>aggrandize</li> </ul>			

## Directions for questions 39 to 44: Each capitalized word below is followed by four words or

phrases numbered 1 to 4. Choose the word or phrase that has most nearly the same meaning as the capitalized word. Consider all the alternatives carefully before you make the choice.

39. IMPETRATE			
🔘 curse	entreat	🔘 jeopardize	Confine closely
40. LIMPID			
clear and graceful	flexible	Crippled	Clinging
41. NONAGE			
stage of immaturity	ninety years	particular occasion	group of nine musicians
42. PECULATE			
guess	embezzle	🔘 sinful	comblike
43. REPRISAL			
retritution	retort	representation	protest
44. HALE			
greeting	wholeness	compulsion	strong and well
Directions for question spaces which are mea Select the appropriate your answer at the rig	nt to be filled in with o choice that makes the	ne of the four choices	numbered 1 to 4.
spaces which are mean Select the appropriate your answer at the right	nt to be filled in with o choice that makes the ht place. nt blunders, his grip ove	ne of the four choices e sentence most mean	numbered 1 to 4.
spaces which are mean Select the appropriate your answer at the right 45. In spite of his arrogat there was no his	nt to be filled in with o choice that makes the ht place. nt blunders, his grip ove leadership.	ne of the four choices e sentence most mean er his party never	numbered 1 to 4. ingful, and mark
<pre>spaces which are meal Select the appropriate your answer at the righ 45. In spite of his arroga there was no his wavered;sophistication</pre>	nt to be filled in with o choice that makes the ht place. nt blunders, his grip ove leadership. on o improved; repetition of	ne of the four choices e sentence most mean er his party never on      slackeded;alterna to gation that his country v	<pre>numbered 1 to 4. ingful, and mark _ since his claim was that tive</pre>
<ul> <li>spaces which are mean</li> <li>Select the appropriate</li> <li>your answer at the right</li> <li>45. In spite of his arrogathere was no his</li> <li>wavered; sophistication</li> <li>46. The Chairman had to starving people of Zambia</li> </ul>	nt to be filled in with o choice that makes the ht place. nt blunders, his grip ove leadership. on improved; repetitie of o quickly refute the alleg a with weapons of war	ne of the four choices e sentence most mean er his party never on  slackeded;alterna to gation that his country v their crying need	<pre>numbered 1 to 4. ingful, and mark _ since his claim was that tive</pre>
<ul> <li>spaces which are mean</li> <li>Select the appropriate</li> <li>your answer at the right</li> <li>45. In spite of his arrogathere was no his</li> <li>wavered; sophistication</li> <li>46. The Chairman had to starving people of Zambia</li> </ul>	nt to be filled in with o choice that makes the ht place. nt blunders, his grip ove leadership. on improved; repetitie of o quickly refute the alleg a with weapons of war e mancipate; for to meet	er his party never on  slackeded;alterna to gation that his country v their crying need	<pre>numbered 1 to 4. ingful, and mark _ since his claim was that tive</pre>
<ul> <li>spaces which are mean</li> <li>Select the appropriate your answer at the right</li> <li>45. In spite of his arrogathere was no his</li> <li>wavered; sophistication</li> <li>wavered; sophistication</li> <li>46. The Chairman had to starving people of Zambia</li> <li>alienate; due to meet</li> <li>47. '' means only and the starving the st</li></ul>	nt to be filled in with o choice that makes the ht place. nt blunders, his grip ove leadership. on improved; repetitie of o quickly refute the alleg a with weapons of war coment in the mancipate; for to meet	<pre>ne of the four choices e sentence most mean er his party never on      slackeded;alterna     to gation that his country v their crying need</pre>	<pre>numbered 1 to 4. ingful, and mark _ since his claim was that tive</pre>
<ul> <li>spaces which are mean</li> <li>Select the appropriate your answer at the right</li> <li>45. In spite of his arrogathere was no his</li> <li>wavered; sophistication</li> <li>wavered; sophistication</li> <li>46. The Chairman had to starving people of Zambia</li> <li>alienate; due to meet</li> <li>47. '' means only and the starving the st</li></ul>	nt to be filled in with o choice that makes the ht place. nt blunders, his grip ove leadership. on improved; repetitie of improved; repetitie of emancipate; for to meet e emancipate; for to meet a 'shade of distin vindication, forceful	<pre>ne of the four choices e sentence most mean er his party never on      slackeded;alterna     to     gation that his country v         their crying need         their crying need         enervate;in an         attempt to meet ction.'         nuance,subtle</pre>	<ul> <li>numbered 1 to 4.</li> <li>ingful, and mark</li> <li>_ since his claim was that</li> <li>tive      flourished; substitute     for     for food and medicine.         <ul> <li>appease; rather than         meet</li> </ul> </li> <li>prevarication, clever</li> </ul>
<ul> <li>spaces which are mean</li> <li>Select the appropriate your answer at the right</li> <li>45. In spite of his arrogathere was no his</li> <li>wavered; sophistication</li> <li>wavered; sophistication</li> <li>46. The Chairman had to starving people of Zambia</li> <li>alienate; due to meet</li> <li>47. '' means only and the paradox; fine</li> <li>48. The feeling of being</li> </ul>	nt to be filled in with o choice that makes the ht place. nt blunders, his grip ove leadership. on improved; repetitie of o quickly refute the allegation with weapons of war is the meet e emancipate; for to meet o vindication, forceful uncared for and a	<pre>ne of the four choices e sentence most mean er his party never on      slackeded;alterna     to     gation that his country v         their crying need         their crying need         enervate;in an         attempt to meet ction.'         nuance,subtle</pre>	<ul> <li>numbered 1 to 4.</li> <li>ingful, and mark</li> <li>_ since his claim was that</li> <li>tive      flourished; substitute     for     for food and medicine.         <ul> <li>appease; rather than         meet</li> </ul> </li> <li>prevarication, clever</li> </ul>

government's wishy-washy attitude to racial discrimination.

both,genuinely

brutally, anything
fairly, falsely

severely, firmly

Directions for questions 50 to 52:In each question below are given four words, each designated by a number 1,2,3 or 4. One of the four words is spelt incorrectly. Choose that word.

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- 50. combinatorial camelier calvary comatose
- 51. chary loath infamy turpid
- 52. hubris sauves demure weird

Directions for questions 53 to 55 : In each of the following sentences, four words or phrases are underlined. You should choose the one word or phrase which would be not appropriate in standard written English.Mark (5) if you think that the sentence has no error.

53.	After she had <u>laid</u> dov	<u>vn</u> for <u>a while</u> , he <u>felt</u> bet	ter.	
$\bigcirc$	1	O 2	◎ 3	<b>0</b> 4
54.	She was puzzled and	<u>concerned</u> <u>about</u> her beh	aviour	
0	1	© 2	O 3	<b>0</b> 4
55.	The <u>troupe</u> <u>nearly</u> ent	ertained us <u>for</u> <u>four hours</u>	<u>.</u> .	
$\bigcirc$	1	O 2	O 3	<b>0</b> 4
	-	to 56 to 60: Each sent . Ignore errors of punct		parts 1,2,3,4.Mark the
56.	Every man, woman a	nd child in the house on f	ire have been saved.	
0	Every man, woman	and child	$\bigcirc$ in the house on fire	have been saved.
57.	One of the best lawy	ers in town have been him	ed.	
$\bigcirc$	One of the	best lawyers in town	have been	hired.
58.	I request you kindly t	o come to me immediately	/.	
$\bigcirc$	I request you	kindly to	© come to me	immediately.
59.	My friend's mother is	the principal of a girl's co	llege.	
0	My friend's mother	is the principal	◎ of a	🔘 girl's college.
60.	To succeed in these t	tests it is absolutely nece	essary for us to aim for sp	eed and accuracy.
0	To succeed in these t	test 🔘 it is absolutely ne	ecessary 🔘 for 🔘 to ai us accuracy	•

## Directions for question 61 to 110. Choose the correct alternative.

61. "A game of 50" means a game in which the player scoring 50 points first is the winner. In a game

of 50, A can give B 10 points. This means that when A scores 50, B scores 40 points. In a game of 50, A can give B 10 points, but B can give C 20 points. With the same efficiency how many points can A give C?

0 30 25 0 40 50 62. 2 pipes X and Y fill a tub in 10 min and 15 min resp. Both are opened and at the end of 5 minutes X is turned off. How much time will the tub take to fill? 1/2 min 4/3 min 3/2 min 5/2 min 63. Walking at 2/3 of his usual speed a man is 2 hrs.late. Find his actual travel time 8 hrs 4hrs 3hrs none of these 64. A train after travelling 30 km from X meets with an accident and proceeds at 3/4 of the former speed and reaches by 45 min. late. Had the accident happened 10 kms further one, it would have arrived 15 min sooner. Find the original speed and distance. 60km 30 km 50 km 🔘 20 km 65. A cat sees a rat 50 metres away from her and moves in the opposite direction at a speed of 12 km/hr. A minute later the rat sees her and gives chase at a speed of 15 km/hr. How soon will the rat overtake her? 5 min 6 min 2 min 12 min 66. 3 pipes can fill a reservoirin 10,15 and 20 hrs. resp. The first was opened at 5 a.m., the second at 6 a.m., third at 7 a.m. When will the reservoir the filled? 6:30 a.m. 0 10:20 a.m. 5:20a.m. 🔘 4 p.m. 67. Rowing at a steady rate, a man travels downstream for an hour and covers 5 km. If he takes 1hr.20min. For the return journey. Find the speed of the current? 0.625 km/hr 0.325 km/hr 0.75 km/hr none of these 68. If 15 men and 10 boys can do in 1 day as much work as 12 men and 20 boys. How much should a man be paid a day if a boy is to get Rs.10 a day? Rs.45 Rs.30 Rs.33.33 Rs 40 69. A cop after a robber who has 100m start. The cop runs 2 km in 8mins. And the thief 2 km in 12 mins. How far the thief has gone before he overtaken? 200 250 0 300 210 70. 1The sides of a triangle are 5:6:7 and its area is 800 sqft. Find its sides? 71. Find the area of the cyclic quadrilateral whose sides are 15,12,10 and 13 cms. 30\*sqrt(26) 30\*sqrt(20) 10\*sqrt(6) 10\*sqrt(2)

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72. Cost of painting th height of the room?	ne 4 walls of a room 401	t.*15ft. At Rs.5 per squai	re feet is Rs.7500. Find the
🔘 14 ft.	13.63 ft.	🔘 15.72 ft.	21.2 ft.
	pezium of height 20 cm e other. Find the parall	n. Is 800 cm <sup>2</sup> . One parallel el side?	side is
0 35,45	0 30,40	0 45,35	60,70
	circular cylinder is 450 o ea is 200 cm <sup>2</sup> . Find its		
◎ 2.5 cm	🔘 1.5 cm	O 5cm	🔘 4.5 cm
	s the weight of steel . el 16 inches diameter?	Find the diameter of an in	on ball whose weight is equal
6	0 7.5	09	0 8
76. A rectangle 5cm*3 volume of solid genera		s smaller edge as axis. Find	d the curved surface area and
0 85,60	0 35,40	0 75,30	0 30,75
	eter is dug 15m deep a height of the embankn	-	ind a width of 5m to form an
69	© 82	80	0 75
78. The radius of a cir	cular cylinder is increas	ed 40%. Find the % incre	ase in volume?
95	96	0 72	48
79. A river 10m deep 2 into the sea per minut		rate of 6km/hr. Find the r	metric tones of water running
© 30000	0 10000	© 2*10 <sup>5</sup>	© 2*10 <sup>4</sup>
80. If the diameter of	a cylinder is 14cm. And	l height is 10cm, then tota	al surface area (in cm <sup>2</sup> ) is:
0 748	0 896	0 558	0 468
81. The radius of a cy the cylinder is:	linder is 2m. And its len	gth is 20m. The area of a	n iron sheet constructed from
88*22/7	0 80*22/7	0 36*22/7	54*22/7
82. The sum of the rac of the cylinder is 1760	_	ight of a solid cylinder is 4	40m. If the total surface area
◎ 5700 <sup>3</sup>	) 5420m <sup>3</sup>	◯ 5082 <sup>3</sup>	◎ 5600 <sup>3</sup>
83. the radii of 2 cylind	ders are in the ratio 3:4	4. Their heights are in the	ration 2:3. The ratio of their

9/27/13 Indiainfoline - Business School volumes is 0 2:1 0 3:4 0 1:2 0 2:3 84. Two cylinders of equal volume have their heights in the ratio 2:3. Ratio of their radii is 0 1:4  $\bigcirc$  1:sqrt(2) sart(2):1 0 2:1 85. If a train runs at 20 km/hr, it reaches its destination late by 10 min. But if it runs at 30 km/hr, it is late by 2 min. only. The correct time for the train to complete its journey is: 8 min 14 min 12 min 15 min 86. Two busess travel to a place 20 kmph and 40 kmhr. If the second bus takes 6 hrs. less than the fixed for the journey the length of the journey is: 262 km 240km 200km 271.5km 87. A car travels a distance of 360km at a uniform speed. If speed of the car is 20km/hr more then time is 3 hrs. less. The original speed of car was: 0 40 0 45 32 0 37 88. A man covers 30km partly at 4km/hr and 6km/hr. If he covers former distance 6km/hr and later at 4 km/hr,he could cover 2km more in the some time. Time taken to cover the whole distance in the original time is: 0 3.75 6.2 0 5.5 0 4.7 89. A theif steals a car at 1p.m. and drives it at 20km/hr. The theft is discovered at 2p.m. The owners sets of another car at 30 km/hr, he will overtake the thief at: 3:06p.m 2:52p.m. 4:00p.m. 2:20p.m. 90. 1The ratio between the rate of walking of x and y is 2:3. If the time taken by B to cover a certain distance is 24min, to cover the same distance A will take: 0 32 0 48 0 16 36 91. 125, 106, 89, 76, 65, \_\_\_\_\_ 0 56 0 53 0 58 0 59 92. 5, 6, 3, 4, 1, \_\_\_\_ 04 0 2 0 -2 6 🔘 93. 12, 30, 105, 473, 2599, \_\_\_\_\_ 0 15913 0 16892 0 3654 3564 94. 13,20,140,147,1029,

0 1033

0 1036

0 7203

0 1056



95. The area of a triangle with base 36 cms is equal to the area of a circle of radius 21 cms. Determine the approximate height of the triangle.

75cm

🔘 77cm

its height?

🔘 52 cm

🔘 46 cm

96. Pens at 20 Rs each and books at 40 Rs each were purchased. In all these were 6, at a total cost of Rs.180. If the number of Pens and books were interchanged, how much less would have been spent ?

0	🔘 same amount	🔘 Rs.2.50	🔘 Rs.6			
97. 123, 211,299,156	244,					
0 325	0 250	0 332	none of these			
98. 855,7695,69255,6	23295,					
5629653	5609655	6609655	0 1608652			
	hs w $_1$ gm. The jar half fille f the jar. Completely filled					
◎ 2(w <sub>2</sub> -w <sub>1</sub> )	○ 2w+w <sub>1</sub>	O 2w₂-w₁	○ 2(w <sub>2</sub> +w <sub>1</sub> )			
	the first 1/3 of distance to 1/3rd at 3x km/hr. What is		f x km/hr, the 2nd 1/3rd at ne entire journey?			
◎ x km/hr	1/2*x km/hr	2/3*x km/hr	18/11*x km/hr			
	n isosceles triangle in whic . ABCD is a squar, the side		ides xy and xz are 15 each xz and xy resp. Find the			
0 53	0 52.65	0 51.84	60.09			
deposit scheme of a b	102. Mohan deposits Rs.150 on the first of every month starting from 1st Jan1985, in the recurring deposit scheme of a bank which allows simple interest @ 6% p.a.on the sum standing to his credit at the end of each month. What is the amount, Mohan is entitled to on 31st Dec, 1985					
Rs.1818	© Rs.1800	© Rs.1450	Rs.1400.80			
103. A strip of paper 100m long, 4cm wide and 0.1mm thick is wound round a cylindricalCore of diameter 10 cm and height 4cm. What is the diameter of the cylinder now? $\bigcirc$ 41.2cm <sup>2</sup> $\bigcirc$ 40cm <sup>3</sup> $\bigcirc$ 43.5cm $\bigcirc$ 63cm						
104. A rhombus has sides 10cm each and the circle that is inscribed in it has radius 1.5cm. What is the area of the rhombus in cm <sup>2</sup>						
© 30cm <sup>2</sup> ©	15cm <sup>2</sup> © 4cm <sup>2</sup>	10cm <sup>2</sup>				
105. To comfortably s	it in a room, every girl mus	t be allowed a floor space	of 2 sq.m. and air space			

of 5.5 cubic metres. Fifty girls are to be seated comfortably in a room 10m. long. What should be

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🔘 5.5m	🔘 6.6m	🔘 6.5m	🔘 5m	
106. Simplify s	sqrt(64+64x <sup>2</sup> )	= sqrt(25+25x <sup>2</sup>	)	
3sqrt(1+x <sup>2</sup> )	<sup>2</sup> ) O	sqrt(1+x <sup>2</sup> )	• sqrt(1- $x^2$ )	• 4sqrt( $x^2$ )
107. O is the o XYZ	centre of a cir	cle. XP is a tan	gent at X.Angel YXP = 50	<sup>o</sup> . Find the measure of the arc
◎ 100 <sup>0</sup>	◎ 50°	🔘 180 <sup>0</sup>	○ 90°	
	he ratio of the		•	he first to the cube of the econd as 1/20. Find the ratio of
0 3:4	2:1	1:2	cannot be determind.	
On shares of F	Rs.10 each. If	the price of the	5.100, and another pays a e former be Rs.150.00 and m to a purchaser.	t the rate of 3.5% of the later Rs.15.00, compare
<ul><li>36.67% ar</li><li>67.36% ar</li></ul>		(	<ul> <li>37.66% and 86.66%</li> <li>None of these.</li> </ul>	
110. Factorise	$(x-y)^3 + (y-z)^3$	-(x-z) <sup>3</sup>		
	y)(y-z)(x-z) 3y-3z		<ul><li>3(xyz)</li><li>cannot be found.</li></ul>	

## Direction for questions 111 to 120: Study the table carefully and answer the questions that follow.

Type of companyà	No. of shares in mgt.		consultation in	Joint decision making	Full employee control
Profits	1			İ	
10-50	30	10	3	20	2
50-100	20	5	17	10	1
100-150	15	7	21	40	1
150-200	4	8	20	40	2
>=200	5	10	7	30	0

\*Consultation means just taking employee opinion it is not involving employees in decission making.

111. The company making the most profits were the ones

- who involved employees in decission making.
- Consulted the employees.
- Did not listen to employees.
- Gave full control to employees.
- 112. The least number of companies showing profit in all the profit categories were

- not managed well.
- Did not consult others.
- Under full employee control.
- Were under management control.

113. If the total amount of profit generated by all the companies in the 10 - 50 lacs category is 13.00 crores then the average profit is

- 🔘 20 lacs.
- 🔘 21 lacs.
- 18 lacs.
- 🔘 22 lacs.

114. If company with joint decission making style in the 50-100 lacs profit category made an average profit of 80 lacs and company of limited consultation made average profit by all companies in joint decission making is in comparison,

- less by Rs 350 lakhs.
- Greater by Rs 3.5 crores.
- Greater by Rs. 3.5 lakhs.
- Greater by Rs. 350 crores.

115. The average profit required to be made by companies with full consultation in the 7200 lacs segment 50 that their total profit equals that made by companies of no share in mgmt type with average profit of 280 lacs is

- 1400 lacs.
- 🔘 280 lacs.
- 220 lacs.
- 200 lacs.

116. If you are appointed as a consultant and are to advice the atrategy for employee Relations based on the above data you would , advice

- full employee control.
- Joint decision making.
- No share in management.
- Limited consultation.

117. In the range of profits from Rs 10 – 150 lacs, across categories I No share in mgmt and full employee control show a similar trend. II Consultation in critical issues shows an increasing trend. III Joint decision making shows an increasing trend.

- I and II only.
- II and III only.
- I and III only.
- I II and III.

118. The maximum jump in the number of companies from one category to the next occurs in case of which style.

- Full employee control.
- Limited consultation.
- Full consultation style.
- Joint decision making.

119. The ratio of the number of companies in one style of employee relation is exactly twice of another style in the same category. The unique thing is that this occurs thrice in mat category. This category is

- 10 50 lacs.
- 50 100 lacs.
- 150 200 lacs.
- >- 200 lacs.

120. In case of the ratio mentioned in question (9) above which of the style occurs twice, once as a numerator and once as a denominator.

- Full consultation.
- No share in management.
- Joint decision making.
- Full employee control.

## Directions for questions 121 to 150

Each question is followed by 2 statements Mark (1) if statement I alone is suficient but statement II alone is not sufficient Mark (2) if statement II alone is sufficient but statement I alone is not sufficient Mark (3) if both statements I & II together are sufficient but neither statements alone is

sufficient

Mark (4) if each statement alone is sufficient Mark (5) if statement I &II together are not sufficient.

121. What is the present age of Shyamu?

- a. His birthday was on 29th Feb
- b. His age 5 years ago was a 2 digit odd no. the sum of the digits being an even prime number.

 $\bigcirc$  1

04

05

122. What is the average speed of Kishan

2

a. He walks at 20 miles hour from place P to another place Q and returns at 15 miles per hour. b. Distance from P to Q is 50 miles.

01	0 2	03	0 4	05
123. Find R in th	e trapezium PQR	5.		
a. P = 60 <sup>0</sup> b. Q =30 <sup>0</sup>				
0 1	0 2	03	0 4	05

03

124. A 2 digit no. is divisible by 5. What is the

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	digit is 1 /2 the nur he digits is 10	nber ten's digit		
0 1	0 2	03	<b>o</b> 4	05
125. What is t	he S.P of a radio?			
a. Profit on b. Profit on	S.P is 5% S.P is 1/4 profit on	C.P		
01	0 2	03	0 4	05
126. What is t	he value of P m tria	ingle PQR		
a. R = 2 Q b. PQ = 5, 0	QR = 6			
0 1	0 2	03	0 4	05
127. Was a "bl	lack Mercedes" here	e yesterday ?		
	ars that were here ercedes were black.		llack	
01	◎ 2	03	0 4	05
128. Is A to th	ne northwest of B			
	he South east of A he northwest of B			
0 1	0 2	03	0 4	05
129. Is X the r	right person to be c	hosen		
	who cannot face th t face this challenge		e right person to be	e chosen
0 1	0 2	03	0 4	05
130. In the red	ctangle PQRS what	is the length ?		
a. Area of r b PR = 25	ectange is 50 sq. u units.	nits.		
0 1	0 2	03	0 4	05
131. Is point A	A in the first Quadra	nt		
	thin the circle with the straight line 3x		nd radious 4	
01	0 2	03	0 4	0 5
132. Is line PQ	tangent to the circ	cle within center	R	

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		perpendicular to PC e, and RQ is perpe		
0 1	0 2	03	0 4	◎ 5
133. What is the val	ue of a			
a. $(a^2)^2 = a^4$ b.( $a^3$ ) <sup>2</sup> = (2 <sup>2</sup> ) <sup>2</sup>	3			
01	0 2	03	0 4	◎ 5
134. What is the ave	erage salary of $x$ ,	y, z		
a. x y draw equal b. z's salary is Rs		is half of x y		
01	0 2	03	0 4	◎ 5
135. Is Satish older	than Ganesh			
		atish and 2 years ears and Ganesh's		
01	0 2	03	0 4	◎ 5
136. What is the are	a of a square PQI	RS		
a. The Perimeter b. The length of t				
0 1	0 2	03	0 4	◎ 5
137. Is the radious o	of circle with cent	re A a whole numb	ber	
a. The circumfere b. The ratio of th		is 10 (22 /7) of the circle to the	area of the circle	e is 1/ 3
0 1	0 2	03	0 4	O 5
138.Are the integers	a,b,c,d,ewh	ich have been writ	ten in the ascend	ing order consecutive?
a. C is the average b. C = b + 3	ge of the five inte	ger		
0 1	0 2	03	0 4	◎ 5
139. What is the are	a of the triangle I	PQR		
a. P , Q , R are th b. Triangle ABC is	-	e triangle ABC. angle of side 20 cr	n	
0 1	0 2	03	0 4	◎ 5
140.How many stone	es are there totall	y with x y		

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a. If x gives 5 ston b. If y had 10 ston				
0 1	02	03	0 4	◎ 5
141. What is the value	e of y ; x ,y , z ar	e real numbers		
a. x ,y , z are such b. x = z and both a				
0 1	0 2	03	0 4	◎ 5
142. A tank contains time the tank is comp				
	takes 2 hours to f completely filled t	ill the tank then pipe B alone	takes 3 hours to e	empty it.
0 1	02	03	0 4	◎ 5
143. What is the ratio	of the rates of in	terest for the two	schemes	
a. Rs. 6000 investe b. Rs. 8000 investe				
0 1	0 2	03	0 4	◎ 5
144. What is the spee	ed of A			
a A takes 15 seco b. A takes 20 seco			ong	
0 1	0 2	03	0 4	© 5
145. What is the total	l surface area of a	a cylinder		
a. The lase area is b. The volume is 36				
0 1	0 2	03	0 4	© 5
146. At what time wo	uld the Rajdhani E	xpress reach Mum	nbai	
a. It left Delhi at 1 b. Geetanjali Expres at 1 :30 p.m. on the s	ss which left Mum			ed towards Delhi crossed it
0 1	0 2	03	0 4	5
147. What is the tota	l cost of tiles need	ded for a room 12	ft by 10 ft	
a. The tiles are 4 ir b. Tiles cost Rs. 15	-	ו		
01	02	03	0 4	◎ 5

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148. What is the	rate of S.I.				
	al doubles itself ir al is Rs. 1580.	1 5 years			
0 1	0 2	03	0 4	05	
149. What is the Rs. 8/ kg.	profit when 2 va	rieties of coffee at	Rs. 5/ kg and Rs.	. 10/ kg are mixed a	nd sold for
	uantity sold was ost of the mixture	•			
0 1	0 2	03	0 4	05	
150. In a 50 m ra in a boom race.	ace B takes half a	minute more than	A to complete th	e race. How much o	an A give B:
a A runs 50 b. A is faster	m in 5 minutes. than B.				

## Directions for questions 151 to 160 : Read carefully the passages given below and answer the questions that follow.

0 5

## Passage 1

How strange time is and how queer we are! Time has really changed and it has changed us too. It walked one step forward, unveiled its grace, alarmed us and hen elated us.

Yesterday we complained about time and trembled at its terrors. But today we have learned to love it and revere it, for now we understand its intents, its natural disposition, its secrets and its mysteries.

Yesterday we were a toy in the hands of Destiny. But today Destiny has awakened from her intoxication to play and laugh and walk with us. We do not follow her but she follows us.

Questions:

151. The author is talking about

- Time and how it has changed
- Our queerness
- Our fright
- None of the above.
- 152. The author tries to say that along with time
  - We have become more frightened
  - We have changed too
  - We also walk with it
  - None of the above

153. When the author says that "...... Destiny follows us", he means

Destiny can take walks

- Destiny can play like us
- Destiny can sleep and awake like us
- We have conquered destiny

154. The author throughout the passage sounds

- 🔘 sad
- pessimistic
- angry
- 🔘 optimistic

155. The passage has probably been written by a

- Novelist
- Philosopher or a poet
- Botanist
- Historian

### Passage 2

As comprehensive socialism has diminished an opposing doctrine has emerged. This is privatisation. As a broad rule, privatisation ranks with socialism in irrelevance. There is a large area of economic activity in which the market is and should be unchallenged. Equally there is a large range of activities that increases with increasing economic activity where the services and functions of the state are either necessary or superior. Privatisation is not any better as a controlling guide to public action than is socialism. In both the cases the primary service of the doctrine is in providing escape from thought. In a good society there is in these matters one dominant rule: Decisions must be made on the social and economic merits of the case. This is not the age of doctrine. This is the age of practical judgement.

Questions:

156. The author is

- 🔘 anti- socialism
- anti-privatisation
- calls for a balance between both
- None of the above

157. The following statement is false

- Socialism has disappeared
- Privatization cant be used in all areas
- Privatisation and socialism are opposing doctrines
- All of the above
- 158. The piece was written in the
- 🔘 1960s
- 1970s
- 1990s
- 1950s

159. In a good society, decisions are made based on

- 9/27/13
  - ad-hoc
  - on cash flows
  - on economic and social merits of cases
  - 🔘 on economic value

160. In this passage the central idea is of the

- Theory of ideologies
- forms of governments
- Relevance of socialism even today
- Economic activities

## Study the statements and the two conclusions and state if:(A) Only conclusion I follows (B) Only conclusion II follows

## (C) Both conclusions I and II follow

## (D)Neither I or II follow

161. Statements: Due to contamination of water a large number of people were admitted to the hospital. The symptoms denoted Malaria.

Conclusion:

(I) Contamination of water may lead to Malaria

(II)Malaria is a disease 3

162. Statements: To own a personal imported motor bike one requires an import license Conclusions:

(I) Motor bikes are manufactured in India

(II) They can be imported easily 4

	🔘 А	🔘 В	🔘 С	🔘 D
--	-----	-----	-----	-----

163. Statements: The average number of students in cities is 40 per teacher, whereas in the villages it is 50. The combined average is 45.

Conclusions:

(I) The student-teacher ratio in the cities is not satisfactory

- (II) Student-teacher ratio in cities is higher than that in the villages

## Study the statements and the two inferences that follow and state if:

- (A) Only inference I follows
- (B) Only inference II follows
- (C) Both inferences I and II follow
- (D)Neither I or II follow

164. Statements: All monkeys are donkeys. Some monkeys are rabbits

(I) Some rabbits are donkeys (II) Some donkeys are rabbits

165. Statements: No petal is a plant. No plant is a thorn (I) No thorn is a petal

(II) No Petal is thorn

О А	🔘 В	🔘 С	🔘 D

166. No bird is an animal. All birds are insects

(I)No insec (II)No anin	t is animal nal is insect				
🔘 А	🔘 В	🔘 С	$\bigcirc$	D	
	pectations a ctations are		All fears	are dupes.	So

(II)All liars are dupes Ο Α

🔘 В C ( 0 D

168. Every ink is blue. Flowers are blue. So (I)Flower is ink (II)Ink is flower 1

Ο Δ 🔘 В O C O

169. No cat is rat. No rat is dog. So (I)No cat is dog (II)No dog is cat 4 О А 🔘 В O C О

170. All slaves are masters. All masters are harsh (I)All slaves are harsh (II)All harsh are slaves

🔘 А 🔘 В © С 0 D

## **Directions for questions 171 to175**

Each question below is followed by four arguments. Classify them into strong and weak arguments.

#### Strong arguments must be both important and directly related to the question. Weak arguments may not be directly related or may be of minor importance

171.Movies should not be I No: Movies can contain II Yes: Censorship boards III Yes: Censorship implies IV Yes. Movies are facing	obscenity and violence are overworked anyway s that a few people know	what is good for the rest	
All strong	🔘 Only II weak	II and IV weak	All are weak
172. Honesty is the best I Yes: To be honest pays II No: Honesty is often ta III No: Honesty is rarely a IV Yes: An honest person	in the long run aken advantage of appreciated	and is a happier person	
I strong	All are strong	II is strong	III is strong
173. The dowry system h I Yes: All the dowry paye II No: Legislation will enco III Yes: Legalization will h IV No : A shameful practio	rs will be happy ourage the practice help institute checks and a		
II and III strong	All are weak	IV is weak	🔘 II is weak

174. Money is the root of all evil

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I Yes : Money can drive men to murder and robbery II No : Money is mechanical III No : Only trees have roots IV Money signifies greed, which is the root of all evil					
II strong	O All are weak	All are strong	I and IV are strong		
I Yes : A wise investme II No : It is not necessa 'continued spending' in III Yes : Someday or th	ent today can give one ary that an investment the future ne other, everybody sto	wisely today, and you we an assured future income today, however wise, can ps working ody is comfortable with.			
I and II are strong	I II and III are st	rong 🛛 All are strong	All are weak		
definitions given belo FACT: Something that	nts as Fact(F), Inferen w t can be seen or heard ement that is drawn o	nce(I), or Judgement(J) d, and is capable of bein r concluded from a fact roval or disapproval			
176. a] This is a red book b] All red books are unluck c] Red books are more attr	-				
S FFF	ננו 🔘	🔘 JFJ	O FJJ		
177. a] The goat is sitt b] The grass is green c] Plastic is not a bio-d					
درر 🔘	S FFF	© FIJ	S FFJ		
178. a] It is unimaginab b] God is great c] Politics is the last re					
S FFF	נונ 🔘	JFF	ورز 🔘		
179. a] Catches win ma b] Its just not cricket c] Spectators find one-		resting than test matches			
SFJ	III 🔘	III (	III		
180. a] She was writing b] I love his mild nature c] The secretary gave	2				
درر 🔘	🔘 FJJ	© FII	◎ FFI		
Directions for questio An argument is a stat view		ince another person ab	out your point of		

An assertion is a point of viewA counter-argument contains logic opposing the assertionBased on the above definitions, classify each of the given set of statements intoI AssertionII Supporting reasonIII Counter argumentIV Irrelevant argument						
<ul> <li>181. a] They sold 850 chairs thereby getting a net profit of Rs 100,000</li> <li>b] The IT department did the right thing when it acquired undervalued property nearly</li> <li>10 years ago</li> <li>c] In the last 2 auctions, the department failed to sell any of the 53 chairs on view</li> <li>d] Even in an advertising blitz in the Gulf did not generate much revenue</li> </ul>						
○ IV,IV,III,III	◎ I, II,III,III	◯ II, I, III, III	🔘 I, II, II, II			
182. a] It is difficult to be b] The symptoms of happ c] Happiness comes from d] Unhappiness creates a	piness are a source of hap a lack of want	opiness				
🔘 I, II, II, II	🔘 IV, I, II, II	🔘 I, II, I, II	🔘 I, II, IV, IV			
183. a] A cheat b] A liar c] He is a twisted man d] A friend to be relied on						
🔘 II, II, I, III	◎ IV, IV, II, III	◎ II, III, I, IV	🔘 I, I, II, II			
184. a] The difference between good and evil is a fine dividing line b] For example, is abortion right or wrong						

c] Nature has not devised simplicity

d] Even a small leaf is of infinite complexity

#### **Explanatory answers to Paper-3**

1. [2]	2. [1] 3	3. [2] 4.	[1] 5.	[1] 6. [1	.] 7. [1]	8. [1]	9. [1]	10. [1]	
11. [1]	12. [1]	13. [4]	14. [2]	15. [1]	16. [2]	17. [2]	18. [3]	19. [2]	20. [3]
21. [2]	22. [2]	23. [4]	24. [1]	25. [1]	26. [3]	27. [4]	28. [1]	29. [2]	30. [3]
31. [2]	32. [2]	33. [1]	34. [2]	35. [3]	36. [3]	37. [2]	38. [1]	39. [2]	40. [1]
41. [1]	42. [2]	43. [2]	44. [4]	45. [3]	46. [4]	47. [3]	48. [1]	49. [4]	50. [2]
51. [4]	52. [2]	53. [5]	54.[2]	55. [2]	56. [4]	57. [3]	58. [2]	59. [4]	60. [4]

61. A = 50pts., B = 40pts. B = 50pts., C = 30pts. I.c.m. of 50 and 40 is 200 If B gets 200, A gets 250, C gets 150pts. If A gets 50, C gets 50\*150/250 = 30pts. Hence[1]

62. Work done by x and y in 5 min = 5(10+15/150) = 5/6Remaining work = 1/6 9/27/13

```
for doing 1/15 work, g takes 1 min.
for doing 1/6 work,?
1/6*1*15 = 5/2 min
Hence [4]
63. Let time be t and speed be s.
Distance travelled = st = 2/3 \text{ s}^{*}(t+2)
t = 2/3 (t+2)
t = 4hrs.
Hence [2]
64. Let the speed be x.
When speed becomes 3/4th of the usual time, time becomes 4/3 i.e. 1/3rd more of the usual
time.
1/3rd of usual time = 45min.
1/3rd of usual time taken to travel by = 45-15
1/3rd of usual time taken to travel AB = 10kms = 15min.
Usual time taken to travel 10km = 45 min
usual speed = 10*60/45 = 40/3 km/hr
Usual time taken to travel Ay = 45*3 = 135 min = 2 hrs.15min.
Distance = 40/3 \times 135/60 = 90/3 = 30 km
Total distance = 30+30 = 60km
Hence[1]
65. 12km/hr = 12*100/60 = 200metres/min
Distance of the cat from the rat = 50+200 = 250 metres
Since both are moving in same direction, the rat gains 15-12 = 3 km/hr i.e. 50 metres/min
Time required to overtake = 250/50 = 5 min
Hence [1]
66. Let time be t hrs after 5a.m.
6.5t-5 = 30
6.5t = 35
t = 5 1/3 hrs.
The resoirvoir will fill at 5a.m.+5 hrs20min = 10.20a.m.
Hence[3]
67. speed down the river = 5 \text{ km/hr}
speed up the river = 5/(1 \ 1/3) = 3.75 \ \text{km/hr}
speed of the current = 1/2(5-3.75) = 0.625 km/hr
Hence[1]
68. 15m + 10b = 12m + 20b
3m = 10b
money earned by 10 \text{ boys} = \text{Rs}.100
Rs.100 = money earned by 3 men.
1 man should be paid 100/3 = \text{Rs}.33.33
Hence[2]
69. The cop gains 1/8 - 1/12 = 1/24 km/min = 41 2/3 m/min
To gain 100m, time, 100/(41 2/3) = 2.4 \text{ min}
The thief has gone ahead by 2.4*1/12*1000 = 200m
Hence [1]
70. If the sides are 5x, 6x and 7x
s = 18x/2 = 9x
Area = sqrt[s(s-a)(s-b)(s-c)] = 800
```

= sqrt[9x(9x-5x)(9x-6x)(9x-7x)] = 800x = sqrt[800/sqrt(216)]Hence [2] 71. s = a+b+c+d/2 = 50/2 = 25Area of the quadrilateral =  $sqrt(10*13*15*12) = 30*sqrt(26)cm^2$ Hence [1] 72. Area of 4 walls = perimeter \* height = 2(40+15)\*h= 110\*hArea = 7500/5 = 1500 1500 = 110hh = 13.63Hence[2] 73. Area = 1/2(sum of parallel sides \* height)= 1/2 \* sum of sides \*20 $800 = 10^*$  sum of parallel sides 80 = sum of parallel sidesx + (x+10) = 80x = 35 other side = 45Hence[1] 74.450/200 200r = 900r = 4.5 cm Hence[4] 75 . density of steel is 1 i.e. iron is 8 weight of iron ball = weight of steel volume of iron \*8 = volume of steel \*1  $r^{3}*8 = 512$  $r^3 = 512/8 = 64$ r = 4diameter = 8Hence[4] 76. sc =  $2*22/7*r*h = 2*22/7*5*3 = 30*22/7 \text{ cm}^2$ volume =  $22/7*r*r*h = 75*22/7 \text{ cm}^2$ Hence [4] 77. New volume/old volume = (22/7\*49\*r\*r\*h)/(22/7\*r\*r\*25\*h) = 49/25If old is 25, new is 49, then increase is 24 increase% = 24/25\*100 = 96%Hence[2] 78. Length of water column = 6000/60volume of water =  $100*10*200 = 2*10^5 \text{m}^3$ weight of water =  $2*10^{5*}1000$ kas  $= 2*10^5$  tons Hence[3]

### 79. Length of water column = 6000/60 = 100 m/min

volume of water =  $100*10*200 = 2*10^{5} \text{m}^{3}$ Weight of water =  $2*10^{5*}1000$ kgs  $= 2 \times 10^5$  tons Hence[3] 80. Total surface area of a cylinder = 2\*22/7\*r\*h+2\*22/7\*r\*r= 2\*22/7\*7\*10+2\*22/7\*7\*7 = 440 + 308= 748Hence[1] 81. 2\*22/7\*r\*h = 2\*22/7\*2\*20  $= 80 \times 22/7$ Hence[2] 82. r+h = 402\*22/7\*r\*r+2\*22/7\*r\*h = 2\*22/7\*r(r+h)2\*22/7\*r(r+h) = 1760r = 7 h = 33volume =  $22/7*r*r*h = 22/7*7*7*33 = 5082 \text{ m}^3$ Hence[3] 83. Let 3r,4r be the radii Let 2h, 3h be the height. Ratio of volumes = 1/2Hence [1] 84. Let heights = h, 2hLet radii be r and R 22/7\*r\*r\*h = 2\*22/7\*R\*R\*hr\*r = 2(R\*R)r/R = sqrt(2)/1Hence[3] 85. Let correct time be x. distance travelled in (x+10) min. at 20km/hr Distance travelled in (x+2) at 30 km/hr (x+10)\*20/60 = (x+2))\*30/60x = 14 min.Hence [3] 86. x/20 - x/40 = 62x-x/40 = 6x = 240km Hence[2] 87. Let speed be x. 360/x - 360/(x+20) = 3360(x+20)-360x = 3x(x+20)(x+60)(x-40)x = 40 Hence [1]

88. Suppose the first distance is covered in x hours and 2nd distance in y hours. 4x+6y = 30 9/27/13

AD/XE = AY/EY

6x + 4y = 32Solving equations, x = 3.6 hrs., y = 2.6 hrs. Total time = 6.2 hrs. Hence[2] 89. Distance covered by thief in 1hr. is 20km. Now 10 km will be compensated in 1 hr., 20 km will be compensated in 2 hrs. So, he overtakes the thief at 4p.m. Hence[3] 90. 1/2:1/3 = 3:2If y takes 2 min., x takes 3 mins. If y takes 24 min, x takes 24\*3/2 = 36 min. Hence[4] 91. -19, -17, -13, -11, -7 92. +1,-3 93. \*2.5, \*3.5, \*4.5, \*5.5, \*6.5 94. +7,\*7 95. Area of circle = 22/7\*r\*r = 22/7\*21\*21 = 1386Area of triangle =  $1/2 b^*h$ 96. Pens Books 40 20 30 10 10 If the number of Pens and books are interchanged the same amount will be spent since the ratio of pens to books is 1:1 the . Hence[2] 97.+88, -143 98. 7695/855=9, 69255/7695=9, .....5609655/623295=9 99. Weight of jar =  $w_1 q$ Weight of liquid =  $w_2$ -w Weight of liquid(half filled with liquid) =  $w_2 - w_1$ Weight of liquid filled =  $2(w_2 - w_1)$ Weight of jar + weight of liquid =  $w_1 + 2(w_2 - w_1)$  $= 2w_2 - w_1$ Hence [3] 100. In finding average speed, we use Harmonic mean. H.M. =  $1/{1/3[1/x+1/2x+1/3x]} = 18x/11$  km/hr. Hence[4] 101. Draw XE to YZ By pythagoras theorem,  $(XE)^{2} = (XY)^{2} - (YE)^{2} = (15)^{2} - (9)^{2} = 144$ Let AB = CD = x.

x = 71/5

 $x^2 = 51.84$ Hence [3] 102. Total money deposited = Rs.12\*150 = Rs.1800Interest on Rs.150 for 12 months = 150\*12/12\*6\*1/100 = 9Interest on Rs.150 for 11 months = 150\*11/12\*6\*1/100 = 33/4Interest on Rs.150 for 1 month = 150\*1/12\*6\*1/100 = 3/4Total interest = 9/1+33/4+3/4 = Rs.18 Total amount due = 1800 + 18 = Rs.1818Hence [3] 103. Volume of core =  $22/7 \times 10/4 \times 10/4 \times 4$  cm<sup>3</sup> Volume of core with paper =  $22/7*d/4*d/4*4cm^3$ Volume of paper alone =  $22/7[d^2/16-10^2/16]*4cm^2$  $= 22/7*[d^2-100/4]cm^3$ Also, volume of paper = 22/7\*100\*100\*4\*0.1/10 cm<sup>3</sup>  $= 100^{2}/7^{4}00^{0.1}/10$  cm<sup>3</sup>  $= 400 \text{ cm}^3$  $400*22/7 = 22/7(d^2-100)/4$  $d^2 = sqrt(1700) = 41.2(approx)$ Hence[1] 104. Total are =  $4 \operatorname{area}(\operatorname{triangleOAB})$ = 4\*1/2\*10\*1.5 = 30 cm<sup>2</sup> Hence[1] 105. floor space required =  $100m^2$ Air space required =  $100*5.5m^3 = 550m^3$ Height = 550/100 = 5.5mHence[1] 106.  $64+64x^2 = 64(1+x^2)$  $25+25x^2 = 25(1+x^2)$  $sqrt(64+64x^2)-sqrt(25+25x^2) = 8sqrt(1+x^2)-5sqrt(1+x^2)$  $= 3 \text{sart}(1.x^2)$ Hence [1] 107. Measure of arc XYZ = XOY= 2(XDY)=2(XYP) $=2*50^{\circ} = 100^{\circ}$ Hence [1] 108. Let the two no.s be x and y.  $(x^2/y^3)/(x^3/y^2) = 1/20$  $x^2/y^3 * y^2/x^3 = 1/20$ 1/xy = 1/20We cannot find x:y Hence[4]

109.  $1^{st}$  investment = An investment of Rs.150 fetches a dividend of Rs.5.50 Rate = 5.50/150\*100 = 36.67%(approx)

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2^{nd} investment = An investment of Rs.15 fetches a dividend of Rs.0.35
Rate = 0.35/15*100 = 86.37\%(approx)
Hence[1]
110. If a+b+c = 0, then a^3+b^3+c^3 = 3abc
Putting x-y = a, y-z = b, x-z = c
Then a+b+c = 0
The factors are 3(x-y)(y-z)(x-z)
Hence[1]
111. A.
112. C.
113. A. No of companies across different types of employee relations in 10 - 50 lacs category is 65
Total profits generated by then is 13.00
Average profit = 13.0 / 65 * 10^7
= 130 / 65 * 10^{6} = 20 lacs.
114. b. Avg profit of JDM com = 80 lacs
no. of \cos = 10
Therefore Total profit = 800 lacs
Avg profit of Limited cons. Type firms = 90 lacs
No. of \cos = 5
Total profit = 450 lacs
Therefore JDM cos are > by 800 - 450 = 350 lacs = 3.5 crores.
115.d. Avg profit of no share in mgmt types = 280 lacs
total profits = 280 \times 5 = 1400 lacs.
Total no of cos in full consultations types = 7
Therefore Avg profit to be made = 1400 / 7 = 200 lacs.
(note it is a >- greater than or equal to sign for cust category or profits.)
116. b. The most number of companies are under this type of employee relations.
117.a.
118.d. In case of joint decision making from 50 - 100 lacs ( 10 \cos) to 100 - 150 lacs (40 \cos).
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119. c. Joint decision making / Full consultation = 40 / 20 = Limited consultation / No share in mgmt = 8 / 4.

= No share in mgmt / full employee control = 4/2 = 2.

120. b. As seen above No share mgmt occurs in numerator in one case and in denominator in another.

121. Statement (2) alone is sufficient because 5 years ago his age should have been 11. (1 + 1 = 2). **Hence[2]** 

122. From statement I Average speed = 2 uv /u + v = 2 \* 20 \* 15 / 20 + 15 Hence[1]

123. From statement (2) we get R. Hence[2]

124. Both the statements are not sufficient. Hence[5]

125. Since p q both are less than 1. Hence[1]

126. Both the statements do not give S.P.Hence[5]

127.  $R = 180 - 100 = 80^{0}$  $Q = 40^{0}$ Hence[1]

128. Both are insufficient. Hence[5]

129. From both the statement, we arrive at -- A is to the North West of B. Hence[3]

130. Both are required. Hence[3]

131. Both the statements together give point P in the first or the second Quadrant. Hence[5]

132. Statement 2 alone is sufficient as the tangent PQ is perpendicular to QR. Hence[2]

133. From statement 1 --> ( a )<sup>4</sup> = a <sup>4</sup> From statement 2--> a <sup>6</sup> =  $2^{6}a = 6$ Hence[2]

134. From statement 1 2 z = 1 / 2 y 200 = 1 / 2 y y = 400 x = y = 400**Hence[3]** 

135. From statement 1-- Satish is older than Ganesh From statement 2 -- no conclusion can be drawn **Hence[1]** 

136. From statement 1 -- area = 30Therefore each side = 30 / 4From statement 2 -- length of diagonal is given. Both the statements by themselves satisfy the conditions. **Hence[4]** 

137. From statement 1 -- 2 (22 /7)r = 10 ( 22 / 7)r = 5 2( 22 / 7)r : (22 / 7)  $r^2$ 1:4 Hence[4]

138. We can derive the answer by combining both the statements. Hence[3]

139. From statement 1 -- we get the triangle PQR From statement 2 -- we go the length **Hence[3]** 

140. From both the statements a simultaneous equation can be formed. Hence[3]

141. From statement 1-- y  $^2$  = xz y= sqrt xz From statement 2 -- y =sqrt x<sup>2</sup> y = x
but we cannot determine the value.
Hence[5]

142. From statement 1 -- we do not have the rate at which it emplies. From statement 2-- we do not have the rate at which it fills. **Hence[3]** 

143. Since we do not know whether interest is simple or compound, we cannot calculate the ratio.**Hence[5]** 

144. From statement 1 2 we get the speed of A.Hence[3]

145. Total surface area of a cylinder = 2(22/7) rh + 2(22/7) r 2 From both the statements we get the values of r h. Hence[3]

146. From statement I we do not know the distance From statement II speed of both the trains is equal. Hence Rajdhani will take 1 1/2 hours. Statement 2 alone is sufficient. Hence[2]

147. From statement II we get the cost. Hence II is sufficient. Hence[2]

148. Statement II alone does not give the principal. Hence combining both statement we get the rate of S.I. Hence[3]

149. From statement I we get the quantity not the cost. Hence both the statements are required. **Hence[3]** 

150. From statement I we can find the time required by A B. Hence[1]

## Passage-1

151. a

- 152. b 153. d
- 155. d
- 155. b

## Passage- 2

156. c 157. a 158. c 159. c 160. c

161[3]	162[4]	163[4]	164[3]	165[4]	166[4]	167[4]	168[1]	169[4]	170[1]
171[3]	172[2]	173[1]	174[4]	175[1]	176[4]	177[2]	178[4]	179[3]	180[2]
181[3]	182[2]	183[1]	184[1]	185[4]					