M.Voc. TECHNOLOGY AND MANAGEMENT CONSULTING

(Final)

Direction (Qn. Nos. 1 – 8): Read the following passage carefully and answer the questions given below.

In India, innovation is emerging as one of the most important rubrics in the discourse on how to bring about greater and more consistent economic and social development. One observes steadily growing investments in R&D across the country, the setting up of National and State innovation bodies, as well as the introduction of government sponsored innovation funds. There have also been several conferences and debates on innovation and how to best promote and accomplish it in India and a number of articles on the subject, written for newspapers and magazines, as well as more informal platforms like online forums and blogs.

Academic engagement and Indian authorship on the subject have also exploded in the last five years. Despite widespread agreement on the importance of innovation in India, there are wide gulfs between different conceptions of innovation and the path India should take towards securing benefits through investments in innovation.

Many Indian conversations around innovation begin by talking about jugaad, that uniquely Indian approach to a temporary fix when something complex, like an automobile or a steam engine stops working. However many observers have pointed out that while the jugaad is certainly innovative, it is a response to the lack of an innovation culture- more a survival or a coping mechanism at a time of need than a systematic methodology to effectively address, a wide ranging, complex set of problems.

Another specifically Indian approach to innovation that has entered into wide currency of late is the so called "frugal innovation" deemed by many to be the most appropriate for the Indian context. In its mid-term assessment of the 11th Five year plan, the Planning Commission stressed the need for innovation in India in order to "accelerate its growth and to make growth more inclusive as well as environmentally sustainable."The document went on to say that "India needs more of frugal innovation that produces more frugal cost products and services that are affordable by people at low levels of incomes without compromising the safety efficiency and utility of the products. The country also needs processes of innovation that are frugal in the resources required to produce the innovations. The products and processes must also have frugal impact on the earth's resources."

Two people formulated a similar theory called the More- from - Less -for - More (MLM Theory of innovation) which allows for more production using fewer resources but benefits more people. Under this rubric come products that are more affordable versions of existing technologies. While both frugal innovation and the MLM theory are certainly valuable in terms of bringing affordable products to a greater number of people, and may even be considered a necessary first step on what India's innovation can accomplish, they barely graze the surface of what innovation can accomplish. that is- innovation is capable of bringing about complete paradigm – shifts and redefining the way we perceive and interact with the world.

Take the cell phone, for example: it revolutionized communication in a previously inconceivable way, provided consumers with a product of unprecedented value and created an entirely new market. The cell phone was the result of years of directed intentional innovation efforts and large investments, and would not have been created if the people responsible simply set out to make the existing telephone cheaper and more accessible to all.

While jugaad and frugal innovation may be indicative of the Indian potential for innovativeness, this otential is not utilized or given opportunity to flourish due to lack of an enabling culture.

India's many diverse and complex needs can be met only through systematic innovation, and major shifts have to first take place in our educational institutions, government policies and commercial firms in order for such innovation enabling culture to come about.

The one thing that India's innovation terrorists have not said is that the absence of a culture of innovationist is intrinsically linked to many of the most intractable problems facing India as a nation. These include poor delivery of government services, inadequate systems of personal identification and absence of widely available financial services for the rural poor, health and sanitation failures. This list can go on. Cumulatively, the inability of India as a nation, society and economy to adequately provide for its own population no longer reflects a failure of implementation, but rather a failure of innovation, for there are no immediately available shelf solutions that would make it possible for these grand challenges facing India to be redressed. Rather we need to look at these intractable problems from the more sophisticated and empowering lens of innovation, for them to begin to be solved.

- 1. Which of the following depict the growing importance of innovation in India?
 - (i) Increased investment in research
 - (ii) Initiation of government backed funds for innovation
 - (iii) Increase in the number of conferences arranged and articles written on innovation
 - (A) Only (i)

(B) (i) and (ii)

(C) (ii) and (iii)

- (D) All of the above
- 2. Which of the following best describes the MLM theory of innovation?
 - (A) Maximise output by using least number of resources and benefitting a small number of people
 - (B) Benefit most number of people through least usage of resources and maximum output
 - (C) Maximise resource utilization and cost thereby benefit maximum number of people.
 - (D) Benefit most number of people through maximum usage of resources and minimizing cost

3.	Which of the following is possibly the most appropriate title for the passage?		
	(A) (B) (C) (D)	India and the Elixir called Innovation World wide developments in Innovation Innovation around the world vis-a vis India and other neighbouring countries Innovation at its Best	
4.	What ty	pe of message is the author employing in the entire passage?	
	(A) (C)	Pessimistic (B) Sarcastic Informative (D) Urgent	
5.	Why, a	ccording to the author is India unable to adequately provide for its people?	
	(B) (C)		
6.	Why, a	ccording to some people is 'jugaad' not the answer to India's problems?	
	(A) (B) (C) (D)	Many a time this methodology backfires leading to further complications 'Jugaad', provides only cheap solutions to all problems It is reactive and not a proactive and organized method of finding solutions to problems. It can provide solutions to only simple solutions and not to complex ones.	
7.	Which	one of the following is/are true about the cell phone?	
	(ii) The (iii)The	innovation of the cell phone required investment of huge capital cell phone, when invented was meant to be affordable to all cell phone was made available to the public in a very short time from its ation	
	(A) (C)	only (i) (B) only (i) and (ii) only (ii) and (iii) (D) All of the above	
8.	What do passage?	es the author mean by 'frugal impact on the earth's resources' as given in the	
	(A) (B) (C) (D)	The damage to the environment should be assessable. Minimum usage of the earth's natural resources. Minimum impact on the environment in terms of pollution. The impact on the environment should be such that it is reversible.	

Direction (Qn. Nos. 9 – 20): Choose the word which is most similar in meaning to the words given in capital letters.

9.	DEPLORE			
	` /	lose heart . regret	(B) (D)	entreat malign
10.	MOTIV	ATION		
		inducement ambition	` ′	emotion incitement
11.	RESIDI	UE		
		nothing remainder	` /	recede little
12.	PERPE	TUAL		
		perfect never ending	(B) (D)	
13.	ASSEN	T		
	(A) (C)	climb answer	(B) (D)	confirm agree
14.	DEFIA	NCE		
		insult degradation	(B) (D)	denial resistance
15.	EMAN	CIPATE		
		liberate acquit	(B) (D)	release unchain
16.	RESTIV	VЕ		
	(A) (C)	resting restless	(B) (D)	restful arresting
17.	STRAIT	Γ		
	(A) (C)	not crooked channel of water	(B) (D)	a narrow street straightforward

18.	JOCUN	ND		
	(A) (C)	flimsy cheerful	(B) (D)	cruel laughable
19.	BOUR	GEOIS		
	(A) (C)	animated lively	(B) (D)	aristocratic
20.	COMP	ENDIUM		
	(A) (C)	collection reference	(B) (D)	summary index
		n (Qn. Nos. 21 – 27): Cl of the idiom/phrase given belo		alternative which best expresses the
21.	To have	e an axe to grind		
	` ′	to criticize someone to work for both sides	` /	to fail to arouse interest to have a selfish end to serve
22.	A horne	et's nest		
	(A) (C)	A comfortable position Among thorns	(B) (D)	An unpleasant situation A dilemma
23.	To roll	out the red carpet		
	(A) (C)	to buy a gift to decorate the room	(B) (D)	to give a warning signal to give a grand welcome
24.	To put	his foot down		
	(A) (C)	concede resign	(B) (D)	not to yield withdraw
25.	An app	ole of discord		
	(A) (C)	sour apple The cause of a contention	(B) (D)	a quarrel a fight for an apple
26.	At the 6	eleventh hour		
		arrive late the last possible time	(B) (D)	at the last hour at eleven o' clock

27.	Much ado about nothing						
	(B) (C)	talk about nothing a Play by Shaw to make a fuss over a small matt to make a noise	ter				
		on (Qn. Nos. 28 – 33): Select g to the capitalized word.	t the	word that is most closely opposite in			
28.	GRAN	DIOSE					
	(A) (C)	modest brilliant	(B) (D)	egoistic pretentious			
29.	ABSTI	NENCE					
		indulgence devotion	(B) (D)	self-denial afraid			
30.	DISCO	RDANT					
	(A) (C)	harsh harmonious	(B) (D)	different separate			
31.	DISSE	MINATED					
	(A) (C)	network acquaint	(B) (D)	interact concentrated			
32.	AMBIV	/ALENT					
		submissive misleading	(B) (D)	decisive suspect			
33.	SEGRE	EGATE					
	(A) (C)	abolish compile	(B) (D)	confuse darken			
		on (Qn. Nos. 34 – 38): In the s misspelt.	follov	wing group of words, choose the word			
34.							
	(A) (C)	neighbour necessary	(B) (D)	nektar nemesis			

35.	· /	ommend send	(B) (D)	amend comprehend
36.	(A) ag (C) sc	gnostic	(B) (D)	assetic prolific
37.	` /	easurement ontraversial	(B) (D)	concerned contemporary
38.	· /	lirious fty	(B) (D)	delusive heinous

Direction (Qn. Nos. 39 – 46) : Study the 10 statements given below and answer the questions.

- i. Six businessmen from six different nations are staying in different rooms in succession in the same row in a hotel.
- ii. Each of them owns a different number of cars and has donated to different number of institutions during the last year.
- iii. The businessman in Room no. 102 owns twice as many as the number of cars owned by the businessmen who has donated to 8 institutions in the last year.
- iv. The businessman from Uruguay and the businessman in Room no. 106 together own 40 cars in total.
- v. The businessman from Argentina owns 8 cars less than the businessman from England but donated to 10 more institutions in the last year.
- vi. Four times the number of cars owned by the businessman in Room no. 104 is lesser than the number of institutions to which he has donated in the last year.
- vii. The businessman in Room No. 103 owns 12 cars and donated to 8 institutions in the last year.
- viii. The businessman who owns 16 cars donated to 24 institutions in the last year.
- ix. The businessman in Room no. 105 owns 8 cars and donated to 2 institutions less than those donated by the businessman from Canada in the last year.
- x. The Brazilian businessman is staying two rooms ahead of the English businessman who is staying two rooms ahead of the Canadian businessman.
- 39. In which room is Brazilian businessman staying?
 - (A) Room no. 102 (B) Room no. 103 (C) Room no. 104 (D) Room no. 105
- 40. What is the number of institutions to which the Argentinean businessman donated in the last year?
 - (A) 8 (C) 18 (B) 3 (D) 24

41.	The bus	sinessman of which country is stay	ying in	n Room no. 106?
		Argentina Uruguay	(B) (D)	Canada Germany
42.	The bus	sinessman of which country has do	onated	I to 24 institutions in the last year?
		Argentina Canada	` /	Uruguay Germany
43.	The bus	sinessman of which country owns	the hi	ghest number of cars?
	(A) (C)	Argentina Germany		Uruguay Brazil
44.	How m	any cars are owned by the English	ı busiı	nessman?
	(A) (C)		(B) (D)	12 20
45.	How m	any institutions did the businessm	an in	Room 102 donate to?
	(A) (C)		(B) (D)	18 Cannot be determined
46. For how many rooms can the national donated to by the businessmen be accurately				nber of cars and number of institutions etermined?
	(A) (C)	One Three	(B) (D)	Two Four
	were co continu dance,	onducted. The Youth Festival was ed till 26 th April. In the span of 8	s inau 8 days and g	State Youth Festival, six competitions agurated on 19 th April, Wednesday and s, six competitions namely debate, folk group song were organised along with information are available
	ii. iii. iv. v. vi. vii.	Only one competition was held in Kathakali was not conducted on the Mono Act was conducted on the Group song was conducted neithe None of the competition was conducted play was held on Monday There was a gap of two days be competition	he clo lay pr er on V lucted	sing day ior to the debate competition Vednesday nor on Saturday.
47.	Which	competition exactly precedes the	Street	play competition?
	(A) (C)	Debate Folk Dance	(B) (D)	Kathakali Mono Act

		Mono Act follows which competition?		
	(A) (C)	Kathakali Street Play	(B) (D)	Debate Group Song
49. Th	e Yo	uth Festival started with which co	ompet	ition?
	(A) (C)	Group Song Kathakali	(B) (D)	Mono Act Debate
50. Ho	w ma	any days gap is there between Ka	thaka	li and Group Song competitions?
	(A) (C)	One Four	(B) (D)	Two Five
51. WI	hich j	pair of competitions are held on V	Wedne	esday?
	(A) (C)	Mono Act and Debate Street Play and Debate	(B) (D)	
52. WI	hich (competitions are held on three co	nsecu	tive days?
	(A) (B) (C) (D)	Kathakali, Debate and Mono A Mono act, debate and Folk dan Group song, Kathakali and Street Street play, Group song and Fo	ce eet pla	
53. WI	hich (competition is held exactly 4 days	s after	Mono Act?
	(A) (C)	Group Song Kathakali	(B) (D)	Folk Dance Debate

Direction (Qn. Nos. 54 – 58) : Some information is provided in the paragraph below. Answer the questions based on this information.

Paul is in charge of seating the speakers at a table. In addition to the moderator, there will be a pilot, an attorney, a writer and an exporter. The speakers are G, H, J, K and L.

	i. ii. iii. iv. v. vi.	The attorney cannot sit next to L is the pilot The writer and attorney sit on H who is not the moderator, so The moderator does not sit ne	either either eits bet ext to J	explorer r side of the moderator. ween J and K. f or L
54.	Who is	the Moderator?		
	(A) (C)	H J	(B) (D)	K G
55.	Where	does J sit?		
	(A) (C)	Seat 1 Seat 3	(B) (D)	Seat 2 Seat 4
56.	Who si	ts in seat 5?		
	(A) (C)	K H	(B) (D)	L G
57.	Who is	the writer?		
	(A) (C)		(B) (D)	K H
58.	Who si	ts adjacent to the pilot?		
	(A) (C)	G J	(B) (D)	H K

Direction (Qn. Nos. 59 – 64): Answer the questions based on the table below.

Table: Production of major metals and minerals (Million Tonnes)

59.

60.

61.

62.

63.

Year	Aluminium	Coal	Copper	Gold	Iron Ore
2005	69	91	71	15	100
2006	75	88	75	18	120
2007	81	97	79	21	102
2008	98	107	88	25	131
2009	93	110	92	24	143
2010	99	116	97	20	154
2011	105	122	103	25	163

2005	Aluminium	Coal	Coppe	er	Gold	Iron Ore	
2005	69	91	71		15	100	
2006	75	88	75		18	120	
2007	81	97	79		21	102	
2008	98	107	88		25	131	
2009	93	110	92		24	143	
2010	99	116	97		20	154	
2011	105	122	103		25	163	
Which 2011?	mineral/metal v	vitnessed the l	highest gr	rowth	rate in produ	ction from 200)5 1
(A)	Iron Ore		(B)	Aluı	minium		
(C)	Gold		(D)	Cop	per		
(A) (C)	2006	-	(B) (D)	2008			
Highest	growth rate in	production is r	ecorded in	n			
	Iron ore in 2008 (B) Gold in 2011 Aluminium in 2008 (D) Gold in 2006						
			()	Gold	d in 2006		
(C) If annua		2008 th rate in proc	(D)	hibit	ed during 2006		
If annuator the record of the	Aluminium in al average grownext 4 years, wh	th rate in product will be the a	(D) luction exapproxima	thibite ate pr	ed during 2000 oduction of alu	uminium in the	
(C) If annual for the 12015? (A)	Aluminium in al average grownext 4 years, when 125 million to	2008 th rate in product will be the a	(D) duction exapproxima (B)	shibite ate pr	ed during 2000 oduction of all million tonnes	uminium in the	
(C) If annual for the 12015? (A)	Aluminium in al average grownext 4 years, wh	2008 th rate in product will be the a	(D) luction exapproxima	shibite ate pr	ed during 2000 oduction of alu	uminium in the	
(C) If annual for the received to the receive	Aluminium in al average grownext 4 years, when 125 million to	2008 th rate in product will be the annes	(D) luction exapproxima (B) (D)	thibite ate pr 140 160	ed during 2000 oduction of alu million tonnes million tonnes	uminium in the	yea
(C) If annual for the received to the receive	Aluminium in all average grownext 4 years, what 125 million to 155 million to the year is the prion the highest?	2008 th rate in product will be the annes	(D) luction exapproxima (B) (D)	thibite ate pr 140 160	ed during 2000 oduction of all million tonnes million tonnes on in the total	uminium in the	yea

64. 2010?

> Aluminium (B) Coal (A) (C) Copper (D) Gold

Direction (Qn. Nos. 65 - 69): Study the following table and answer the following questions.

Expenditures of a Company (in Lakhs Rupees) per annum over the years

		Item of	expenditure	;	
Year	Salary	Fuel & Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

65.	What is the average amount of interest per year which the company had to pay during
	this period?

- (A) Rs. 32.43 lakhs
- (B) Rs. 33.72 lakhs
- (C) Rs. 34.18 lakhs
- (D) Rs 36.66 lakhs

66.	The	total	amount	of	bonus	paid	by	the	company	during	the	given	period	is
	appr	oxima	tely what	pe	rcent of	the to	tal a	ımou	nt of salary	paid du	ıring	this po	eriod?	

(A) 0.1%

(B) 0.5%

(C) 1%

(D) 1.25%

67. Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

(A) 62%

(B) 66%

(C) 69%

(D) 71%

68. The total expenditure of the company over these items during the year 2000 is?

- (A) Rs. 544.44 lakhs
- (B) Rs. 501.11 lakhs
- (C) Rs. 446.46 lakhs
- (D) Rs. 478.87 lakhs

69. The ratio between the total expenditure on Taxes for all the years and the total expenditure on Fuel and Transport for all the years respectively is approximately?

(A) 4:7

(B) 10:13

(C) 15:18

(D) 5:8

Direction (Qn. Nos. 70 - **75)**: Study the following table and answer the following questions.

A school has four sections A, B, C, D of Class IX students.

The results of half yearly and annual examinations are shown in the table given below.

Result		No of S	tudents	
Result	A	В	C	D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

70.	If the number of students passing an examination be considered a criteria for
	comparison of difficulty level of two examinations, which of the following statements
	is true in this context?

70.	If the number of students passing an examination be considered a criteria for comparison of difficulty level of two examinations, which of the following statements is true in this context?							
	(A) (B) (C) (D)		diffications	cult. same difficulty level.				
71.	How many students are there in Class IX in the school?							
		336 335	(B) (D)	189 430				
72.	Which examin		s per	centage in at least one of the two				
	(A) (C)	A Section C Section	(B) (D)	B Section D Section				
73.	Which	section has the maximum success	rate i	n annual examination?				
	(A) (C)	A Section C Section	(B) (D)	B Section D Section				
74.	Which	ch section has the minimum failure rate in half yearly examination?						

Which section has the minimum failure rate in half yearly examination?

(A) A section (B) B section (C) C section (D) D section

75. What percentage of class IX students passed in both examinations?

> (A) 53% (B) 56% (C) 58% (D) 60%

76.	The total number of integer pairs (x,y) satisfying the equation $x-y = xy$ is				
	(A) 0 (C) 2 (B) 1 (D) 5				
77.	The equation $7^{x-1} + 11^{x-1} = 170$ has				
	(A) no solution (B) one solution (C) two solutions (D) three solutions				
78.	A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is				
	(A) 45 km/hr (B) 50 km/hr (C) 54 km/hr (D) 55 km/hr				
79.	Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is:				
	(A) 173 m (C) 273 m (B) 200 m (D) 300 m				
80.	The angle of elevation of the sun, when the length of the shadow of a tree $\sqrt{3}$ times the height of the tree, is:				
	(A) 30° (C) 60° (B) 45° (D) 90°				
81.	A person invested an amount of Rs. 13,900 divided in two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in 2 years be Rs. 3508, what was the amount invested in Scheme B?				
	(A) Rs. 6400 (C) Rs. 7200 (B) Rs. 6500 (D) Rs. 7500				
82.	Alfred buys an old scooter for Rs. 4700 and spends Rs. 800 on its repairs. If he sells the scooter for Rs. 5800, his gain percent is:				
	(A) (32/7)% (B) (60/11)% (C) 10% (D) 12%				
83.	In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?				
	(A) 30% (C) 100% (B) 70% (D) 250%				

84.	A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?				
	(A)	3	(B)	Δ	
	(C)		(D)		
	(0)		(2)		
85.				of them secured 9 marks more than the eir marks. The marks obtained by them	
	(A)	39, 30	(B)	41, 32	
	` /	42, 33	(D)	· · · · · · · · · · · · · · · · · · ·	
	(-)	,	()	- , -	
86.	If $A = x$	x% of y and B = $y%$ of x, then whi	ich of	the following is true?	
	(A)	A is smaller than B.			
	(B)	C			
	(C)				
	(D)	If x is smaller than y, then A is g	reater	than B, else B is greater than A	
87.				y 2.5 kg when a new person comes in ght be the weight of the new person?	
	(A)	76 kg	(B)	76.5 kg	
	(C)	•	(D)	•	
	(C)	00 kg	(D)	0.5 Kg	
88.	_	triangle with sides 3 cm, 4 cm ar The volume of the cone so formed in		m is rotated the side of 3 cm to form a	
	(A)	12π cm3	(B)	15 π cm3	
	(A) (C)		(D)		
	(C)	10 h cm3	(D)	20 h cm3	
89.	The lar	gest 4 digit number exactly divisib	ole by	88 is	
	(A)	9944	(B)	9768	
	(C)	9988	(D)	8888	
90.	The lea		` ′	2, 15, 20 and 54 leaves in each case a	
	(A)	504	(B)	536	
	(C)	544	(D)	548	
91.	_	ice of 10 chairs is equal to that of or is Rs. 4000. The total price of 12		les. The price of 15 chairs and 2 tables is and 3 tables is	
	(A)	Rs. 3500	(B)	Rs. 3750	
	(C)	Rs. 3840	(D)	Rs. 3900	
	(-)		(-)	7 	

92.		Running at the same constant rate, 6 identical machines can produce a total of 270 bottles per minute. At this rate, how many bottles could 10 such machines produce in 4 minutes?		
	(A) 648 (C) 2700		(B) (D)	1800 10800
93.	Which of the follow	ing statements is not co	orrec	t?
	(A) $\log_{10} 10 = 1$ (C) $\log_{10} 1 = 0$		-	$g(2+3) = \log (2 \times 3)$ $g(1+2+3) = \log 1 + \log 2 + \log 3$
94.	takes 4 hours to c	over the same distance	e ru	ttes to cover a certain distance, while it nning downstream. What is the ratio water current respectively?
	(A) 2:1 (C) 8:3		` /	3 : 2 Cannot be determined
95.	Find the odd man or	nt: 331, 482, 551, 263,	383,	362, 284
	(A) 263 (C) 331		(B) (D)	
96.	Two dice are throw whose product is ev		at is	the probability of getting two numbers
	(A) 1/2 (C) 3/8		(B) (D)	3/4 5/16
97.	-	n 100 m race. A runs ands. The speed of B is	t 5 k	mph. A gives B a start of 8 m and still
	(A) 5.15 kmph (C) 4.25 kmph		(B) (D)	4.14 kmph 4.4 kmph
98.		be drawn off and replace		are water and 5 parts syrup. How much with water so that the mixture may be
	(A) 1/3 (C) 1/5		(B) (D)	1/4 1/7
99.	and 10 minutes resp A, B and C disch	ectively. When the tar	nk is ns F	empty, all the three pipes are opened. Q and R respectively. What is the tank after 3 minutes?

(B) 6/11 (D) 8/11

(A) 5/11 (C) 7/11

100.	From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done?				
	` '	(B) (D)	645 756		
101.	In how many different ways can the letter such a way that the vowels always come to				
	` '	(B) (D)			
102.	An error 2% in excess is made while mean of error in the calculated area of the square		ng the side of a square. The percentage		
	` '	(B) (D)	2.02% 4.04%		
103.	The angle between the minute hand and 8.30, is	the l	nour hand of a clock when the time is		
	` '	(B) (D)	75° 105		
104.	A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is				
	` '	(B) (D)			
105.	A, B and C can do a piece of work in 20, days can A do the work if he is assisted by				
	` '	(B) (D)	15 days 18 days		
106.	Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?				
		(B) (D)	2.5 times 3 times		
107.	The sum of ages of 5 children born at the in the age of the youngest child?	interv	vals of 3 years each is 50 years. What is		
	` '	(B) (D)	7 years None of the above		

108.	A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is				
	` ' '	10 kmph 30 kmph			
109.	It takes eight hours for a 600 km journey, if 120 car. It takes 20 minutes more, if 200 km is done be of the speed of the train to that of the cars is				
	(A) 2:3 (C) 3:4 (B) 3 (D) 4				
110.	The difference between simple and compound is certain sum of money for 2 years at 4% per annum				
	(A) 625 (C) 640 (B) 63 (D) 65				
111.	In a shower, 5 cm of rain falls. The volume of ground is	water that falls on 1.5 hectares of			
		50 cu. m 5000 cu. m			
112.	The difference between a two-digit number and the positions of its digits is 36. What is the diffe number?	•			
	(A) 3 (C) 9 (B) 4 (D) C	annot be determined			
113.	The product of two numbers is 120 and the sum o between the numbers is	f their squares is 289. The difference			
	(A) 4 (C) 6 (B) 5 (D) 7				
114.	The rational number for recurring decimal 0.1251	25 is			
		2.5/99 Ione of the above			
115.	In a camp, there is a meal for 120 men or 200 chi meal, how many men will be catered to with rema				
	(A) 20 (B) 30 (C) 40 (D) 50				

116.	If log($\left(\frac{a}{b}\right) + \log\left(\frac{b}{a}\right) = \log\left(a+b\right)$, then		
	, ,	a+b=1 $a=b$	(B) (D)	$a-b=1$ $a^2-b^2=1$
117.	-	keeper expects a gain of 22.5% og, what was his profit?	n his	cost price. If in a week, his sale was of
	` ′	Rs. 18.20 Rs. 72	\ /	Rs. 70 Rs. 88.25
118.	_	oup of 6 boys and 4 girls, four at ways can they be selected such		Iren are to be selected. In how many least one boy should be there?
	(A) (C)	159 205		194 209
119.		any 3-digit numbers can be form sible by 5 and none of the digits i		om the digits 2, 3, 5, 6, 7 and 9, which ated?
	(A) (C)	5 15	(B) (D)	
120.	agreed Rs. 10,	that A would invest Rs. 6500 for 000 for 3 months. A wants to be 5% of the profits. The profit earn	6 mc the	mselves in a business venture. It was onths, B, Rs. 8400 for 5 months and C, working member for which, he was to as Rs. 7400. Calculate the share of B in
	(A) (C)		(B) (D)	Rs. 2660 Rs. 2840
121.	What is	s the version number of the latest A	Andro	id "Nougat"?
	(A) (C)		(B) (D)	
122.	How m	•	SLV-(C37, making a record for India in space
	(A) (C)	101 103	(B) (D)	102 104
123.	Which	of these is not an OS regarding IC	T?	
		Zephyr Brillo	(B) (D)	RIOT Windows vista

124. Which company is responsible for introducing self-driving bicycle?			?		
	(A) (C)	Yahoo Google	(B) (D)	Amazon Microsoft	
125.	Which	product is not developed	d by Apple Corp	ooration?	
	(A) (C)	iMac IMAX	(B) (D)	iPod iPhone	
126.	How m	any computer languages	s are in use?		
	(A) (C)	5000 50	(B) (D)	20 2000	
127.		technology enables neously?	the analysis	of data from	multiple databases
	(A) (C)	CDMA HDMI	(B) (D)	OLAP WDDM	
128.	What is	name of the latest relea	sed version of r	mac OS?	
	(A) (C)	Sierra El Capitan	(B) (D)	Snow Leopard Yosemite	
129.	Which	of the following is not a	VR headset?		
	(A) (C)	Oculus Rift HTC Vive	(B) (D)	Playstation VR Google glasses	
130.	Out of	the following, which is t	the phone by go	ogle?	
	(A) (C)	Pixel Gionee	(B) (D)	LYF Spice	
131.	What is	Apache Hadoop used f	or?		
	(A) (C)	Gaming Software Testing	(B) (D)	Big Data Analysis Photo viewer	
132.	Which	of the following is used	to connect all co	omputer systems wi	thin a building?
	(A) (C)	Internet Intranet	(B) (D)	MAN Network	

133.	What is	s full form of L ₁ -F ₁ ?		
		Linear-Fidelity Light-Fidelity		Little-Fidelity Line-Fidelity
134.	Which	of the following companies is ass	ociate	d with the concept of electric cars?
	(A) (C)	Maruti Hyundai	(B) (D)	Tesla Nissan
135.	What is	the name of Personal assistant de	evelop	ed by Microsoft?
		Alex Cortana	(B) (D)	Mike Mary
136.	'High p	performance delivered' is the pund	ch line	of which company?
	(A) (C)	Crompton Greaves CEAT	(B) (D)	
137.	What p	roducts does Pepperfry.com sell o	online	?
	` /	Furniture Food discovery	` /	Movie tickets Grocery
138.	Which	brand sued makers of Jolly LLB 2	2 for p	rojecting their brand in poor light?
	` /	Zandu Balm Coca Cola	(B) (D)	Bata Hero motorcycle
139.		w US Secretary of State in the True CEO of the Fortune 500 compa	-	dministration is REX W. TILLERSON med
	(A) (C)	Shell Bank of America	(B) (D)	Cardinal Healthcare Exxon Mobil
140.		the branding expert who is creat brande". He passed away recently		vith the tagline "Sunday hoya Monday,
	(A) (C)	Prasoon Joshi Anand Halve	(B) (D)	R Balakrishnan AlyquePadamsee
141.		the current chairperson of India., which owns the Times of India		gest media group, Bennett Coleman &
	(A) (C)	SulajjaFirodiaMotwani Rekha Menon	(B) (D)	Indu Jain Ekta Kapoor

142.	As per President Donald Trump's executive order, immigration from 7 countries to the US has been put on hold. Which of these countries did Late Steve Job's father hail from?			
	` /	Jordan Syria	(B) (D)	Libya Iran
143.	Which company is the name 'Travis Kalanick' associated with?			
	` /	Ola cabs Oyo	(B) (D)	Uber Paytm
144.	This iconic brand has been sold to French company Peugeot SA in 2017. Which brand is it?			
	` /	Ambassador Contessa	(B) (D)	Mini Beetle
145.	Which of the following American companies is NOT headed by a person of Indian origin?			
	(A) (C)	Microsoft Adobe	(B) (D)	MasterCard Yahoo
146.	India's	GDP growth rate is around		
	` /	4% 9%	(B) (D)	
147.	India's most valuable company in 2016 based on market capitalization is			
	(A) (C)	Infosys TCS	\ /	HDFC Bank Reliance Industries
148.	Which of the following companies DO NOT have a presence in babycare business?			
	(A) (C)	HUL Jyothi Laboratories	(B) (D)	Himalaya Dabur
149.	The company famous for popularising the trend of aerial ads using blimps			
	(A) (C)	Michellin Anheuser –Busch	(B) (D)	Goodyear Google
150.	Which company is Project Loon associated with?			
	(A) (C)	Cartoon Network CNN	(B) (D)	Google BBC
