

Total No. of Questions : 120 Total No. of Pages : 16

Invigilator's Signature

This is to certify that, the entries of Hall Ticket number and OMR Answer Sheet number have been correctly written and verified.

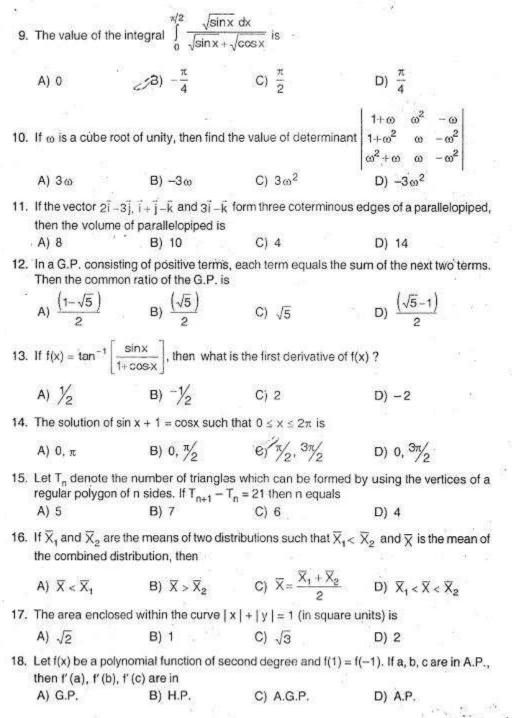
Candidate's Signature

## Instructions to the Candidate

- 1. The Question Booklet with OMR Answer Sheet is issued at the start of the examination.
- Do not open the Question Booklet until the "start opening" signal is given. Candidates are required to verify that there are 120 questions in the Question Booklet. If any printing/binding etc. mistakes are found, immediately inform the invigilator and get the fresh booklet.
- 3. Use of calculators, cell phones and other electronic devices IS NOT PERMITTED inside Examination Hall.
- 4. Candidate should carefully rend the instructions printed on The Question Booklet and OMR Answer Sheet and make correct entries in the OMR Answer Sheet. As OMR Answer Sheets are designed to suit the COMPUTERISED ASSESSMENT SYSTEM, special care should be taken to darken the correct bubble. Fill the Hall Ticket number correctly.
- 5. For each question, choose the correct response answer from out of the four available options.
- 6. For answering a question, fill the appropriate bubble in the OMR Answer Sheet completely like this by using blue/black ball point pen only. Ensure that for each question only one bubble is darkened. More than one answer will be treated as wrong and awarded one negative mark.
- 7. No white filling is permitted in OMR Answer Sheet for any correction.
- 8. Clarifications on questions are not permitted.
- Rough work can be done in any blank space provided in the Question Booklet only. Rough work should not be done anywhere on the OMR Answer Sheet
- 10. No candidate is allowed to leave the Examination Hall till the examination is over.
- Immediately after the prescribed examination time is over, the OMR Answer Sheet should be returned to the Invigilator. Confirm that the Question Booklet and OMR Answer Sheet bear the signature of candidate and the Invigilator at the appropriate places.

## MATHEMATICS

En and a				
1 0 0	NUMBER OF	The Market Market		
1. If A = $\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 1 \\ 0 & -2 & 4 \end{bmatrix}$	and $6A^{-1} = A^2 + cA$	+ dI, where A <sup>-I</sup> is	A - inverse, I is the	identity
			is v, a ja "	
matrix, then (c, d)	is			
A) (-6,11)	B) (6,-11)	C) (11,-6)	D) (6, 11)	
2. Let $\vec{a} = \vec{j} - \vec{k}$ and	$\vec{c} = \vec{i} - \vec{j} - \vec{k}$ . The	n the vector <b>b</b> s	atisfying $(\vec{a} \times \vec{b}) + \vec{c} =$	0 and
$\vec{a} \cdot \vec{b} = 3$ is				
A) $-\vec{i} + \vec{i} - 2\vec{k}$	B) 2i – j + 2k	C) i-i-2k	D) 1 + 1-26	2
<ol><li>Find the number of and 240 elements</li></ol>	respectively, given the	at each pair of sets	has 15 elements in co	80,210 mmon.
	has 3 elements in co			unununu U
A) 616	B) 512	C) 111	D) 702	
4. If the straight line	ax + by + c = 0 alway	s passes through (	1,2), then a, b, c are	e in
A) A.P.		B) H.P.		
C) G.P.		D) None of these processing the second se	e	
<ol> <li>A six faced die is show an even nun the two throws is e</li> </ol>	ber. It is thrown twice	. The probability th	at the sum of the num	than to ibers in
A) 4/8	B) 5/8	C) 6/8	D) 7/8	
6. If $I_n = \int_0^{\frac{\pi}{4}} \tan^n \theta d\theta$	, then $I_8 + I_6$ equals			
A) 1/4	в) 1/5	C) 1/6	D) 1/2	
<ol> <li>Let ∆ABC be a tri  AC  = 5 units. Fin</li> <li>A) 60° or 120°</li> </ol>	angle whose area is d possible values of t		de lengths  AB  ≃ 8 un	iits and
C) 30° only	20 - C	D) 90° only	g 13	
<ol> <li>Person A can hit a Person C – 2 times atleast two times i</li> </ol>	s in 3 attempts. They	attempts. Person E fire a volley. The pr	3 – 3 times in four att obability that the targ	empts. et is hit
A) 3/4	B) 1/2	C) 5/6	D) 1	
/4	-1/2	/6	57.	



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19.	Find the point at whi	ch, the tangent to th	he curve $y = \sqrt{4x - 3} - 3$	1 has its slope 2/3.
	A) (3, 3)	B) (3,2)	C) (2,3)	D) (2,2)
20.	Atal speaks truth in 7 of cases they are like	0% and George spe ely to contradict eac	eaks the truth in 60% ca ch other in stating the s	ses. In what percentage ame fact ?
	A) 13/50	B) 11/50 ·	C) 23/50	D) 33/50
21.	A man observes the 1000 feet nearer an first point of observa	d finds the angle of	elevation to be 45°. Wh	ain to be 30°. He walks hat is the distance of the
	A) 500√3 (√3 + 1)	ft.	B) 500 (√3 + 1)ft.	
	C) 500 (√3 - 1) ft.		D) 500√3 (√3 - 1)f	t.
22.	The sum of n terms of value of the n <sup>th</sup> term	of an arithmetic seri is 2n. The commor	es is 216. The value of t n difference, d is	he first term is n and the
	A) 1	в) <sup>2</sup> / <sub>3</sub>	C) 3/2	D) <sup>12</sup> / <sub>11</sub>
23.	Force 31+2j+5k ar	nd 2ī+j–3ki are ac	ting on a particle and d	lisplace it from the point
	$2\tilde{i} - \tilde{j} - 3\tilde{k}$ to the poi	nt $4\tilde{i} - 3\tilde{j} + 7\tilde{k}$ , the	n the work done by the	force is
	A) 18 units	B) 30 units	C) 24 units	D) 36 units
24.	The value of $9^{\frac{1}{3}}$ 9	1	2017 II 	
	A) 3	B) 6	C) 9	D) None of these
25.	The minimum value	of the function y =	$2x^3 - 21x^2 + 36x - 20i$	S
	A) -120	B) -126	C) - 128	D) None of these
26.	In how many differe so that all the vowel			QRATION" be arranged
	A) 810	B) 1440	C) 2880	D) 50400
27.	If $\log_x y = 100$ and k A) $2^{10}$	og <sub>2</sub> x = 10, then the B) 2 <sup>100</sup>	e value of y is C) 2 <sup>1000</sup>	D) 2 <sup>10000</sup>
28.	point of the line seg	e line parallel to the ment joining the po	bints (1, 3) and (1, −7) is	ssing through the middle
	A) $2x - 3y - 4 = 0$		B) $2x - 3y + 4 = 0$	18 A.
	200 G25 (1 1 1 1 1 2 2 1 1 1 2 2 1 1 1 2 3 1 1 1 1			
	C) $2x - 3y - 8 = 0$		D) $2x - 3y + 8 = 0$	2 2
29	C) $2x - 3y - 8 = 0$	b) (a + b – c) = ab.	D) $2x - 3y + 8 = 0$ The measure of the ar	

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30. The number of non-negative integers less than 1000 that contain the digit 1 are C) 10<sup>2</sup>-9<sup>2</sup>  $D_{5}^{3} = 10^{3} - 9^{3}$ B) 9<sup>3</sup> A) 92 31. The lines 3x - 4y + 4 = 0 and 6x - By - 7 = 0 are tangent to the same circle. The radius of this circle is C) 4/5 D). 7/10 A) 3/2 B) 3/4 32. The area of the parallelogram whose diagonals are  $\ddot{a} = 3\ddot{i} + \dot{j} - 2\ddot{k}$  and  $\ddot{b} = \dot{i} - 3\ddot{j} + 4\ddot{k}$  is D) 5./2 B) 5.J3 C) 10-12 A) 10√3 33. If sin x + a cos x = b, then what is the expression for |a sin x - cos x| in terms of a and b ? -B)  $\sqrt{a^2 + b^2 - 1}$  C)  $\sqrt{a^2 + b^2 + 1}$ D)  $\sqrt{a^2 - b^2 + 1}$ A)  $\sqrt{a^2 - b^2 - 1}$ 34. If A and B are two events such that  $P(A \cup B) = \frac{5}{6}$ ,  $P(A \cap B) = \frac{1}{3}$  and  $P(\overline{B}) = \frac{1}{2}$ , then the events A and B are A) Dependent B) Independent D) None of these C) Mutually exclusive 35. If three vectors  $2\hat{i} - \hat{j} + \hat{k}$ ,  $\hat{i} + 2\hat{j} - 3\hat{k}$  and  $3\hat{i} + \lambda\hat{j} + 5\hat{k}$  are coplanar, then  $\lambda$  is C) -3 D) -4 A) -1 B) -2 The equation of the base of an equilateral triangle is x + y = 2 and the vertex is (2, -1). The length of the side of the triangle is C)  $\sqrt{\frac{2}{3}}$ D) 120 37. The total number of numbers that can be formed using the digits 3, 5 and 7 only if no repetitions are allowed, is C) 15 A) 39 B) 105 If x = a cos t, y = b sin t, then B) — C) 4 39. A random variable X has the distribution law as given below : 2 3 Y 1 P(X = x)0.3 0.4 0.3 The variance of the distribution is D) None of these A) 0.4 B) 0.6 C) 2

細胞 The value of tan θ + 2 tan 2θ + 4 tan 40 + 8 cot 80 is A) cot0 B) tan 0 C) sin θ D) cos0 41. The sum of integers between 200 and 400, that are multiples of 7 is A) 8729 B) 8700 C) 8972 D) 8279 42. Lt  $\frac{\tan x - x}{x^2 \tan x}$  is equal to C) 1/2 D) 1/2 A) 0 B) 1 43. Two fair dice are tossed. What is the probability that the total score is a prime number ? A) 1/6 B) 5/12 C) 1/2 D) 7/9 44. Find the equation of the circle which passes through (- 1, 1) and (2, 1), and having centre on the line x + 2y + 3 = 0. A)  $2x^2 + 2y^2 - 2x + 7y - 13 = 0$ B)  $x^2 + y^2 - 2x + 7y - 13 = 0$ C)  $2x^2 + 2y^2 + 2x + 7y - 13 = 0$ D)  $x^2 + y^2 + 2x + 7y - 13 = 0$ 45. Let a, b, c be the position vectors of three vertices A, B, C of a triangle respectively. Then the area of this triangle is given by A)  $\frac{1}{2}(\vec{a} \times \vec{b}) \vec{c}$ B)  $\frac{1}{2} \left| \hat{a} \times \hat{b} + \hat{b} \times \hat{c} + \hat{c} \times \hat{a} \right|$ C)  $\vec{a} \times \vec{b} + \vec{b} \times \vec{c} + \vec{c} \times \vec{a}$ D) None of these 46. The sum of the focal distances of any point on the ellipse  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$  with eccentricity e is given by A) 2ae B) 2b -C) 2a D) 2be 47. If sinx + sin<sup>2</sup>x = 1, then cos<sup>2</sup>x + cos<sup>4</sup>x is equal to A) 0 B) 1 C) -1 D) 2 48. An experiment succeeds twice often as it fails. The probability that in the next six trials there will be at least four successes is A) 240/729 B) 496/729 C) 220/729 D) 233/729 49. Sum of 20 terms of the series - 1<sup>2</sup> + 2<sup>2</sup> - 3<sup>2</sup> + 4<sup>2</sup> - ... is A) 180 B) 200 C) 210 D) 220 50. If  $\tan \alpha = \frac{m}{m+1}$  and  $\tan \beta = \frac{1}{2m+1}$  then  $\alpha + \beta$  is equal to A) 1/3 B) 1/4 C) 1/6 D) π

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## ANALYTICAL ABILITY AND LOGICAL REASONING

	A train takes 18 15 seconds through the train, in met	seconds to pass c gh another station 120 lers ?	ompletel ) m long,	y through a at the same s	station 162 m speed. What is	long and the length
	A) 70	- B) 80	C) 90	ř. –	D) 100	<b>共派</b> (3) (3)
52.	the right end of th	n facing North, Sham le row. Ravi is 5 <sup>th</sup> to ti r children are there in B) 38	he left of	Shamika and ?	of Nikhil, who is J is 20 <sup>th</sup> from th D) None of	e left end.
50	State of the second state of the	27 00	07.00		0.000	
53.	ii) Some doughi iii) No coconut is					
	Which of the follo	wing statements is fa	lse ?			
		erries are doughnuts		ome coconuts	s are apples	
	C) All coconuts	are not apples	D) A	I doughnuts a	are not coconut	s
1	<ul> <li>The lawyer is teachers.</li> <li>Mrs. Reena a</li> <li>Mukesh's with the second seco</li></ul>	6 persons, there are to the head of the fami and her mother-in-law ie is a doctor and they	ily and h both are / have a	as two sons-l alawyers.	Mukesh and Ra	akesh-both
		owing is definitely a c		antes Louision		æ.,
	<ul> <li>A) Lawyer-Tead C) Teacher-Tead</li> </ul>		- C - C - C - C - C - C - C - C - C - C	octor-Lawyer		
EC	. 20년 - 2022년 1월 19일 2월	ession of Rakesh's wi	io 7			
- 00.	A) Teacher	rasion of manoan a wi		loctor		12 _ N
95 E.	C) Lawyer		C.R.S.117	an not be del	termined	2.2
56		y's grandfather's occu	nation ?			8.2
- 50	A) Teacher	B) Lawyer		loctor	D) Can no	t be determined
57	Find the missing A, CD, GHI,	element in the series	5	2.23	17 54	<sup>2</sup> с я н
	A) LMNO	B) MNOP	C) N	IOPQ	D) OPQR	Man see
58	. In a code langua HWDVI in that la	age, FRIEND is codeo anguage ?	d as GTL	ISJ. Which o	f the following i	s coded as
83	A) HAPPY	B) GUARD	C) E	BEADS	D) SPEEL	0
59	. There are four b Bob is one year	rothers Alan, Bob, Ca younger than Carl. A	arl and D Man, who	ave. Dave is b is 34, is two	two years olde years younge	r than Bob. r than Carl.

Who is the oldest ?

A) Alan

11

R.

B) Bob

C) Carl

D) Dave

1.服務部制			9	
	Questions 60 to 62 are b	ased on the followin	g :	
nd th	offices are numbered 1 -	- 6. The offices are a gh dividers. Hence v	irranged in a row an	of the staff members. The d they are separated from igarette smoke flow easily
m d.	senior employee and has Mr. Donald requires sile possible from Miss Rober smoke allergic and cons	they need to consult of to be allotted the offic nce in the offices ner rt. Mr. Mike and Mr. D ecutively the offices	each other often while ce number 5, having 1 kt to his and Mr. Tim onald are all smokers next to hers to be oc	working. Miss. Hardy, is a he biggest window. prefers to be as away as s. Miss Hardy finds tobacco
	60. The ideal candidat A) Miss Hardy	e to accupy the office B) Mr. Mike	e farthest from Mr. B C) Mr. Tim	rown would be D) Mr. Donald
	61. The three employe A) 1, 2 and 4			
	62. The ideal office for A) 2	Mr. Mike would be B) 6	C) 1	D) 3
n	3 hours 30 minutes	s. I have already gon	e to the patient 1 hou	their residence after every ir 20 minutes ago and next s given to the compounder D) None of these
	64. Which pair of num 42 40 38 A) 25 22	bers comes next in t 35 33 31 B) 26 23	he following series ? 28 C) 26 24	D) 25 23
Jined	Questions 65 and 66 and i) All G's are H's ii) All G's are J's iii) All J's and K's iv) All L's are K's v) All N's are M's vi) No M's are G's	e based on the follow or K's are G's	10000000	222803.80040199 22
	65. If no P's are K's, w A) All P's are J's C) No P is an H		must be true ? B) If any P is a G D) If any P is an	
3	<ul> <li>66. Which of the follow</li> <li>A) All H's are G's</li> <li>C) Some H's are</li> </ul>	3	vith one or more of th B) All H's that an D) No M's are H'	e not G's are M's
	67. Shyam is taller th than Suresh, who tallest of all ?	an Pradeep and Pra is as tall as Anurag	deep is as tall as An g. If Pradeep is talle	urag. But Anand is shorter r than Praveen, who is the
3	A) Pradeep	B) Praveen	C) Suresh	D) Shyam
				5

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- 68. When Rajeev was born his father was 32 years older than his brother and his mother was 25 years older than his sister. If Rajeev's brother is 6 years older than Rajeev and his mother is 3 years younger than his father, how old was Rajeev's sister when he was born ? A) 15 years B) 14 years C) 7 years D) 10 years 69. Dhoni starts from his office at 8 A.M. on a Sunday morning, travels 10 km towards West and then turns to his left and walks 8 km. Then he again turns to his left and walks 4 km and then stops. What is the shortest distance to his office from the point where he stopped ? A) 18 km 8) 8 km C) 10 km D) None of these 70. A treasure chest has less than 100 gold coins. The number of coins is One more than a multiple of 3. ii) Two more than a multiple of 4
  - iii) Three more than a multiple of 5 and
  - iv) Four more than a multiple of 6

How many coins are there in the chest ?

8) 88

A) 58

C) 98

D) 38

- Read the statements and then decide which of the conclusions logically follow Statements :
  - 1) All mangoes are golden in colour.
  - 2) No golden coloured things are cheap.
  - Conclusions :
  - i) All mangoes are cheap.
  - ii) Golden coloured mangoes are not cheap.
  - A) Only conclusion i follows B) Only conclusion ii follows
  - C) Either i or ii follows D) Neither i nor ii follows

Questions 72 and 73 are based on the following :

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

- A weighs twice as much as B
- . B weighs four and half times as much as C
- C weighs half as much as D
- D weighs half as much as E
- E weighs less than A but more than C
- 72. Which of the following article is heaviest in weight ?

A) A B) B C) C D) D

Which of the following represents the descending order of weights of the articles ?
 A) A, B, E, D, C
 B) B, D, E, A, C
 C) A, B, C, D, E
 D) C, D, E, B, A

Questions 74 to 76 are based on the following :

There are three switches A, B and C which can be in ON/OFF position. Their settings change as per the following rules :

- i) If A is the only switch as ON, change B to ON.
- ii) If A and B are only switches as ON, change C to ON.
- iii) If all three switches are ON, change C to OFF.
- iv) For all other situations, all switches in ON are changed to OFF and all switches in OFF are changed to ON.

<ul> <li>original setting ?</li> <li>A) A ON, B ON, C ON</li> <li>B) A ON, B OFF, C ON</li> <li>C) A OFF, B ON, C OFF</li> <li>D) A OFF, B OFF, C ON</li> <li>77. If the third day of a month falls on Friday, what day will be on the fourth day after twent first of the month ?</li> <li>A) Monday</li> <li>B) Tuesday</li> <li>C) Saturday</li> <li>D) Thursday</li> <li>78. Ana is a girl and has the same number of brothers as sisters. Andrew is a boy and ha twice as many sisters as brothers. Ana and Andrew are the children of Emma. Hormany children does Emma have ?</li> <li>A) 2</li> <li>B) 3</li> <li>C) 5</li> <li>D) 7</li> <li>Questions 79 to 81 are based on the following: <ol> <li>Anu is shorter than Binu</li> <li>Anu is shorter than Dany</li> <li>Eenu is shorter than Dany</li> <li>Binu</li> <li>C) Dany or Binu</li> <li>D) Both Dany and E</li> </ol> </li> <li>80. Who is the shortest ? <ol> <li>O Cini</li> <li>Eenu</li> <li>Binu</li> <li>Dany or Binu</li> <li>Dany or Binu</li> <li>Dony or Binu is 7 feet tall</li> <li>Dany and Binu is on Cini</li> <li>Eenu is the tallest in the group</li> <li>Dany and Binu is no not have equal height</li> <li>Eenu is the tallest in the group</li> <li>C) Eenu and Arjun run a 100 metres race, where Karan beats Arjun by 10 metres. To d a favour to Arjun, Karan starts 10 metres behind the starting line in a second 100 metra race. They both run at their earlier speeds. Which of the following is true in connectio with the second race ? <ol> <li>Karan and Arjun reach the finishing line simultaneously</li> <li>Karan and Arjun reach the finishing line simultaneously</li> <li>Karan and Arjun true at 00 metres and the starting line in a second 100 metra race. They both run at their earlier speeds. Which of the following is true in connectio with the second race ? </li> </ol> </li> <li>Karan and Arjun reach the finishing line simultaneously</li> <li>Karan and Arjun reach the finishing line sim</li></ol></li></ul>	<ul> <li>Insurfaces and b and on and or is of P, their changed seturitys will be marked and the provided and the provided and the provided and provi</li></ul>	ill ill that	[[[]]]][[]]][]]][]][]]][]][]][]][]][]][	313
<ul> <li>A) A ON, B ON, C ON B) A ON, B ON, C OFF</li> <li>C) A ON, B OFF, C ON D) A OFF, B OFF, C ON</li> <li>76. If only B is ON in the changed setting, which of the following could have been th original setting?</li> <li>A) A ON, B ON, C ON B) A ON, B OFF, C ON</li> <li>C) A OFF, B ON, C OFF D) A OFF, B OFF, C ON</li> <li>77. If the third day of a month falls on Friday, what day will be on the fourth day after twent first of the month ?</li> <li>A) Monday B) Tuesday C) Saturday D) Thursday</li> <li>78. Ana is a gift and has the same number of brothers as sisters. Andrew is a boy and ha twice as many sisters as brothers. Ana and Andrew are the children of Emma. Ho many children does Emma have ?</li> <li>A) 2 B) 3 C) 5 D) 7</li> <li>Questions 79 to 81 are based on the following : <ol> <li>Anu is shorter than Binu</li> <li>Anu is shorter than Dany</li> <li>Eenu is shorter than Binu</li> <li>Anu is shorter than Binu</li> <li>Anany B) Binu C) Dany or Binu D) Both Dany and B</li> </ol> </li> <li>80. Who is the shortest ? <ol> <li>A) Cini B) Anu or Cini</li> <li>Eenu is the following statements would help to logically order the persons accordin to their heights ?</li> <li>A) Binu is 7 feet tall B) Dany and Binu do not have equal heigt C) Eenu is the tallest in the group</li> </ol> </li> <li>82. Karan and Arjun run a 100 metres race, where Karan beats Arjun by 10 metres. To d a favour to Arjun, Karan starts 10 metres behind the following is true in connectio with the second race ? <ol> <li>A) Karan beats Karan by 1 metre</li> </ol> </li> <li>83. In a crickt season, India defeated Australia twice. West Indies defeated India twice Australia defeated West Indies twice. India defeated New Zealand twice and Wes Indies defeated New Z</li></ul>	<ul> <li>A) A ON, B ON, C ON B) A ON, B ON, C OFF</li> <li>C) A ON, B ON in the changed setting, which of the following could have been th original setting ?</li> <li>A) A ON, B ON, C ON B) A OFF, B OFF, C ON</li> <li>C) A OFF, B ON, C OFF D) A OFF, B OFF, C ON</li> <li>C) A OFF, B ON, C OFF D) A OFF, B OFF, C ON</li> <li>77. If the third day of a month falls on Friday, what day will be on the fourth day after twent first of the month ?</li> <li>A) Monday B) Tuesday C) Saturday D) Thursday</li> <li>78. Ana is a girl and has the same number of brothers as sisters. Andrew is a boy and hat twice as many sisters as brothers. Ana and Andrew are the children of Emma. How many children does Emma have ?</li> <li>A) 2 B) 3 C) 5 D) 7</li> <li>Ouestions 79 to 81 are based on the following: <ol> <li>Anu is staller than Cini</li> <li>Eenu is shorter than Binu</li> <li>Anu is staller than Anu</li> </ol> </li> <li>79. The best answer to "Who is the tallest ?" is <ol> <li>Dany B) Binu C) Dany or Binu D) Both Dany and B</li> <li>Who is the shortest ?</li> <li>A) Dany B) Binu C) Dany or Binu D) Both Dany and B</li> <li>Who is the shortest ?</li> <li>A) Dany B) Binu C) Dany or Binu D) Both Dany and B</li> <li>Who is the shortest ?</li> <li>A) Dany B) Binu C) Dany and Binu do not have equal heigh C) Eenu D) Dany is the tallest in the group D) Dany is the tallest in the group D) Dany is the tallest in the group B) Dany and Binu do not have equal heigh C) Eenu is the tallest in the group D) Dany is the tallest in the group B) Dany is the tallest in the group B) Dany and Binu do not have equal heigh C) Eenu is the tallest in the group D) Dany is the tallest in the group B) Ariun to Arjun, Karan starts 10 metres behind the starting line in a second 100 metre race. They both run at 100 metres race, where Karan beats Arjun by 10 metres. To do a favour to Arjun, Karan starts 10 metres behind the following is true in connection with the second race ?</li> <li>A) Karan and Arjun run a 100 metres race. Where Karan beats Arjun by 10 metres.</li></ol></li></ul>	his	A) A ON, B OFF, C OFF	B) A ON, B ON, C ON
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, of their countries of their countries			83. In a cricket season, India defeated Au Australia defeated West Indies twice, Indies defeated New Zealand twice. W	India defeated New Zealand twice and West hich country has lost most number of times ?

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84. Pointing to a woman, Nirmal said "She is the daughter of my wife's grandfather's only child". How is the woman related to Nirmal ?

12

- A) Wife B) Sister-in-law
- C) Sister D) None of these

Questions 85 to 87 are based on the following :

There are five persons A, B, C, D, E standing on six steps numbered 1, 2, 3, 4, 5, 6 from the bottom. At most one person is standing on each step. The step number on which A is standing, is two less than that of C. Step number on which B is standing is one more than that of D.

85. If A is standing on step 1, which of the following is true ?

- A) B is standing on step 2
- B) C is standing on step 4
- C) E is standing on step 3
- D) D is standing one step higher than C
- 86. If D is standing on step 1, on which step A could be standing ?

A) 2 or 4 only	B) 3 or 5 only
C) 3 or 4 only	D) 4 or 5 only

- 87. If there are two steps in between the steps on which A and D are standing, A must be standing on which of the following steps ?
  - A) 3 B) 4 C) 5 D) 6
- 88. From the information given below :
  - A . B means A and B are of the same age
  - A B means B is younger than A
  - A + B means A is younger than B

What does Sachin . Mohan - Ravi mean ?

- A) Sachin is youngest
- C) Sachin is oldest D) Mohan is oldest
- 89. Jimmy saw the time while going to the tennis court. He saw the hour hand is 20° away from 4. After he returned irom tennis court, he noticed that the hour hand is 20° away from 4. If he took ten minutes to go to tennis court and he walked at the same speed while going to the tennis court and while returning, how much time did he spent at the tennis court ?

B) Ravi is youngest

A) 60 minutes	B) 80 minutes
C) 70 minutes	D) 50 minutes

- 90. There are 8 balls looking alike, seven of which have equal weight and one is slightly heavier. The weighing balance is of unlimited capacity. Using this balance, the minimum number of weighings required to identify the heavier ball is
  - A) 1
  - C) 3

- B) 2
- D) 4

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	10 10 10 10 10			
7.0.000		13		
s only	GENE	RAL ENGLISH	•	1
sony	91. Out of the alternatives, choose the app If you had joint accounts with the bills. A) everybody B) anyone			
	92. Choose the analogy that is closest in		The second se	
n the	Diamond : Necklace	a second second	×.	
iding,	A) Cars : Roads	<ul> <li>B) Flowers : Bou</li> </ul>	iquet	( <b>1</b> 8)
D.	C) Gold : Bangle	D) Books : Shop		
* *	<ol> <li>Choose the suitable proposition for the Suresh is angry his served.</li> </ol>	ne blank to make a me ant.	aningful sentence.	
	A) about . B) on	C) by	D) with	
	94. Choose the correct alternative for the	sentence below :	· · · · ·	
26 - 10	The earth is always revolving round t			
8 ° 45	<ul> <li>A) The earth revolves round the sun</li> <li>C) The earth revolving round the sun</li> </ul>		evolving round the sun	
it be	95. Choose the word that best expresses "A close shave"	the meaning of the g	iven idiom :	
	<ul> <li>A) A clean shave</li> <li>C) A guarded secret</li> </ul>	<ul> <li>B) A narrow esca</li> <li>D) A sudden fall</li> </ul>	ape	
2	<ul> <li>96. Pick the part of the sentence that has <u>My elder brother is a MA whereas I a</u> A) My elder brother C) whereas I am</li> </ul>	an error: a <u>m only a BA</u> B) is a MA • D) only a BA	i i i Sa	
1	97. Choose the suitable phrasal ve	the block		
	A) gave in B) gave out	ly rain threatened my C) gave up	crops.	8 ( 
1	<ol> <li>Out of the given alternatives, choose the AFFLUENT</li> </ol>	word that is opposite in	<ul> <li>D) gave off</li> <li>meaning to the word ;</li> </ul>	
way	A) Reluctant     B) Poor	C) Clear	D) Enthusiastic	
Jed 1	99. Fill in the blank with appropriate form	of noun :	by chinasiasiic	
the	yourself, it's not your	)	S 8 2 1	
	A) misunderstanding C) slip	<ul> <li>B) error</li> </ul>		
		D) fault		
	100. Fill in the blank : The instructor, always with the	100		
dy I	The instructor, along with the class, A) are B) have	angry abou	t the room change.	
un [	0/ 11440	C) has	D) is	
	101. Choose the suitable word for the blank What you say is my comp	to make it a meaning	ful statement.	
	A) before B) beside	C) behind	D) bowend	
			D) beyond	

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		2 1	8	14277	,ê	K	X Q	, is	
				14	8		IH		
	102.	Fill in the blank with If you want to avoid A) until		ed to leave	during	_ 7.30 A.	M. )at	i.	
	103.	Choose the word the	at best expres	ses the me	aning of th	e given id	iom :		5 N
**	23	"to smell a rat" A) To suspect som C) To detect bad si	ething bad	B)	To misund To forsake	erstand	2 A.	.2	
	104.	Out of the given alte word ABRIDGE.	matives, choo	ose the word	d that best	expresse	s the mea	ning of th	18
		A) Judge	; B) Release	C)	Shorten	D	) Dissolv	e	200
	105.	'A dog's breakfast' r A) Breakfast cooke B) Breakfast cooke C) Something that D) None of these	ed for a dog ed by a dog	ne very bad	y		¢		6 110 2 1103
2 9	106.	Change the speech A) She says she lik B) She says I like g C) She says that sl D) She says she lik	tes going to the going to the se he liked going	ne seaside easide to the seas		de".	n îi		
	107.	Arrange the followin P: will normally be Q: candidates shou R: that no request fo S: change of centre A) SRQP	granted Id note or	UH S	QSPR	D	QRSP	÷.	
	108.	Rewrite the sentence She was one of the A) She was one of B) She is one of the C) She was one an D) She is an average	e after correct average stude the average s average stude nong the avera	ing the error int of the cla tudents of the dent of the c age student	iss. ne class lass	11 - 144 41 - 15	, and	<sup>он</sup> о 	
	109.	Choose appropriate The decoration of the A) is more pleasing C) is most pleasing	words to form e new house, I	a grammat including the B) a	ically corre e furniture are more p are pleasin	and curtai leasing	ce : ins		) K 2 2
	110.	Fill in the blank : The President of the to Europe.		8 B		#3\$G	12	_enroute	e .
		A) were	B) are	C) v	vas	D)	both (A)	and (C)	
921 T		2.2	02.11. [] W []	41.00					
		1 N 1	C	- F	21 112/53				

The second second second second second	15	
COL	MPUTER AWARENESS	0
111. All digital circuits can be realized	d by using only	
A) Exclusive OR gates	ی B) Half adders	
C) Multiplexers	D) OR gate	
112. The Boolean function a + (a,b)	is equivalent to	
A) a.b	B) a + b	
C) a.b	D) ā+b	
113. Which of the following circuit is	used as a memory device in compu	ters ?
A) Flip-Flop	B) Rectifier	
C) Comparator	D) All of these	8
114. Convert the Hexadecimal numb	er 4DF to its octal equivalent	
A) 2333	B) 2337	
C) 2773	D) 2373	
115. A tautology is a Boolean formula	that is always true. Which of the follow	ing is a tautology ?
A) x	B) (x + x̄) y	5
C) $x + \overline{y} + \overline{x}$	D) (xy) + x	
116. Acronym of EEPROM is	9	
A) Extended Erasable Program	nmable Memory	10
B) Electrically Erasable Read (	Only Memory	
C) Electrically Erasable Progra		
D) Extended Erasable Page-O	riented Memory	
117. For reproducing sound, a CD au	idio player uses a	
<ul> <li>A) Quartz crystal</li> </ul>		
<ul> <li>B) Titanium needle</li> </ul>		. S. P
C) Barium ceramic		
D) Laser beam	54	
118. When we open an internet site,	we see www. What does www stand	for 2
A) World Wide Word		

15

B) World Wide Web

C) World Wide Webinar

D) Word Widing Works

119. The answer of the operation  $(10111)_2 \times (1110)_2$  in hex equivalent is

A)	150	
C)	142	

B) 14C D) 13E

B) 8

120. The minimum number of bits to represent a character from ASCII code set is

A) 2

C) 5

)D) 7