NIMCET - 2012 [ORIGINAL QUESTION PAPER]

(+4, -1 Marking)

(Answers given against each question)

- 1. The number of words can be formed by using the letters of the word Mathematics that strart as well as end with T is
 - (a) 80720
- (b) 90720
- 20860 (c)
- (d) 37528

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- If A-B = $\pi/4$, then $(1 + \tan A)(1 \tan B)$ is equal to

- (b) 1
- (c) 0
- (d) 3 Α

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- 3. Let P(E) denote the probability of event E. Given P(A) = 1, $P(B) = \frac{1}{2}$, then value of P(A|B) and P(B|A)respectively are
 - (a) $\frac{1}{4}, \frac{1}{2}$
- (b) $\frac{1}{2}$, $\frac{1}{4}$
- (c) $\frac{1}{2}$, 1
- (d) $1, \frac{1}{2}$ D

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- 4. The number of different license plates that can be formed in the format 3 English letters (A ... Z) followed by 4 digits $(0, 1, \dots 9)$ with repetitions allowed in letters and digits is equal to
 - (a) $26^3 \times 10^4$
- (b) $26^3 + 10^4$
- (c) 36
- (d) 26^3

D

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- Which of the following is correct?
 - (a) $\sin 1^{\circ} > \sin 1$
- (b) $\sin 1^{\circ} < \sin 1$
- (c) $\sin 1^{\circ} = \sin 1$
- (d) $\sin 1^{\circ} (\pi/180) \sin 1$ B

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- If two towers of heights h₁ and h₂ subtends angles 60° and 30° respectively at the end point of the line joining their feet, then h₁: h₂ is
 - (a) 1:2
- (b) 1:3
- (c) 2:1
- (d) 3:1

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- 7. If the vectors $\overline{a} = (1, x, -2)$ and $\overline{b} = (x, 3, -4)$ are mutually perpendicular, then the value of x is
 - (a) -2
- (b) 2
- (c) 2
- (d) -4

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- What is the value of a for which f(x) =
- continuous?
 - (a) π
- (b) $\pi/2$
- (c) $2/\pi$
- (d) 0

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- If the real number x when added to its inverse gives the minimum value of the sum, then the value of x is equal to
 - (a) -2
- (b) 2
- (c) 1
- (d) 1

C

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- 10. If $\cos (\alpha + \beta) = 4/5$ and $\sin (\alpha \beta) = 5/13$, $0 < \alpha, \beta, \pi/4$, then tan (2α) =
 - (a) 56/33
- (b) 63/65
- (c) 16/63
- (d) 33/56

Timing: 2 hrs.

- 11. The value of $\lim_{n\to\infty} \frac{\pi}{n} \left[\sin \frac{\pi}{n} + \sin \frac{2\pi}{n} + ... + \sin \frac{(n-1)\pi}{n} \right]$ is
 - (a) 0
- (c) 2
- (d) $\pi/2$

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- 12. The point on the curve $y = 6x x^2$, where the tangent is parallel to x - axis is
 - (a) (0,0)
- (b) (2,8)
- (c) (6,0)
- (d) (3,9)
 - D

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13. If
$$I_1 = \int_0^1 2^{x^3} dx$$
, $I_2 = \int_0^2 2^{x^3} dx$, $I_3 = \int_1^2 2^{x^2} dx$, $I_4 = \int_1^2 2^{x^3} dx$,

then

- (a) $I_1 = I_2$ (c) $I_3 > I_4$
- 14. The value of integral $\int_0^{\pi/4} \log \tan x \, dx$ is
- (b) $\pi/2$
- (c) $\pi/3$
- (d) 0
- D NIMCET-2012
- 15. A determinants is chosen at random from the set of all determinants of matrices of order 2 with elements 0 and 1 only. The Probability that the determinant chosen is non-zero is
 - (a) 3/16
- (b) 3/8
- (c) 1/4
- (d) None of these
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В

В

C

- 16. If $\sin^2 x = 1 x$, $\cos^4 x + \cos^2 x =$
 - (a) 0
- (b) 1
- (c) 2/3
- (d) 1
- NIMCET-2012
- 17. The equation of the plane passing through the point (1, 2, 3) and having the vector $\overline{N} = 3i - j + 2k$ as its normal is
 - (a) 2x y + 3z + 7 = 0
- (b) 3x y + 2z + 7 = 0
- (c) 3x y + 2z = 7
- (d) 3x + y + 2z = 7

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- 18. The value of $\int_{0}^{\sin^{-1} 5t} dt + \int_{0}^{\cos^{-1} 5t} dt$ is

- (c) 1
- (d) None of these

W

19. Coefficients of quadratic equation $ax^2 + bx + c = 0$ are 28. If $\overline{a} + \overline{b} + \overline{c} = 0$, $|\overline{a}| = 3$, $|\overline{b}| = 5$, $|\overline{c}| = 7$, then angle between chosen by tossing three fair coins where 'head' menas one and 'tail' means two. Then the probability that the vector \bar{a} and \bar{b} is roots of the equation are imaginary is (a) $\pi/2$ (b) $\pi/3$ (a) 7/8 (b) 5/8 (c) $\pi/4$ (d) $\pi/6$ В (c) 3/8 (d) 1/8 Α NIMCET-2012 NIMCET-2012 20. In a class of 100 students, 55 students have passed in 29. If $\theta(0 \le \theta \le \pi)$ is the angle between the vectors Mathematics and 67 students have passed in Physics. \bar{a} and \bar{b} , then $\frac{|\bar{a} \times \bar{b}|}{\bar{a} \bar{b}}$ equals Then the number of students who have passed in Physics only is (a) 22 (b) 33 (c) 10 (d) 45 (a) - cot θ D (b) $\tan \theta$ NIMCET-2012 (c) $-\tan \theta$ (d) $\cot \theta$ В 21. If H is the Harmonic mean between P and Q, then NIMCET-2012 30. If $f(a+b) = f(a) \times f(b)$ for all a and b and f(5) = 2, f'(0) = 13, then f'(5) is (a) 2 (b) 4 (b) $\frac{P+Q}{Q}$ (c) 6 (d) 8 C (a) 2 NIMCET-2012 31. If (4, -3) and (-9, 7) are the two vertices of a triangle and (d) None of these (1, 4) is its centroid then the area of triangle is NIMCET-2012 22. The number of values of K for which the system of equations (k + 1) x + 8y = 4k and kx + (k + 3) y = 3k - 1has infinitely many solutions is C (a) 0 (b) 1 (c) 2 (d) Infininte NIMCET-2012 32. The equation of the ellipse with major axis along the x-23. The sum of ${}^{20}C_{8} + {}^{20}C_{9} + {}^{21}C_{10} + {}^{22}C_{11} - {}^{23}C_{11}$ is

(a) ${}^{22}C_{12}$ (b) ${}^{23}C_{12}$ axis and passing through the points (4, 3) and (-1, 4) is (a) $15x^2 + 7y^2 = 247$ (b) $7x^2 + 15y^2 = 247$ C (c) $16x^2 + 9y^2 = 247$ (d) $9x^2 + 16y^2 = 247$ В 24. The value of the $Cot^{-1}(21) + Cot^{-1}(-8)$ is (a) 0 (b) ∞ 33. If the circles $x^2 + y^2 + 2ky + 6 = 0$ and $x^2 + y^2 + 2ky + k =$ (c) π (d) $\pi/2$ 0 interesect orthogonally then k is NIMCET-2012 25. Normal to the curve $y = x^3 - 3x + 2$ at the point (2, 4) is (a) $2 \text{ or } -\frac{3}{2}$ (b) $-2 \text{ or } -\frac{3}{2}$ (a) 9x - y - 14 = 0(b) x - 9y + 40 = 0(c) $2 \text{ or } \frac{3}{2}$ (d) $-2 \text{ or } \frac{3}{2}$ (c) x + 9y - 38 = 0(d) -9x + y + 22 = 0C NIMCET-2012 NIMCET-2012 26. A problem in Mathematics is given to three students 34. Focus of the parabola $x^2 + y^2 - 2xy - 4(x + y - 1) = 0$ is (a) (1,1)(b) (1, 2) A, B and C whose chances of solving it are $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ (c) (2,1)(d) (0,2)NIMCET-2012 respectively. If they all try to solve the problem, what 35. If \vec{a},\vec{b} and \vec{c} are unit vectors such that $\vec{a}+\vec{b}+\vec{c}=0$, is the probability that the problem will be solved? (a) 1/2(b) 1/4 then the value of $\vec{a} \cdot \vec{b} + \vec{b} \cdot \vec{c} + \vec{c} \cdot \vec{a}$ is (c) 1/3(d) 3/4D NIMCET-2012 (b) $\frac{-2}{3}$ 27. The function x^x decreases in the interval (a) (0, e)(b) (0, 1) (c) $\frac{3}{2}$ (d) $\frac{-3}{2}$ (c) $\left(0,\frac{1}{2}\right)$ D

(d) None of these

C

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- 36. If $\overline{a}, \overline{b}, \overline{c}$ are non-coplanar vectors and λ is a real number, then the vectors $\overline{a} + 2\overline{b} + 3\overline{c}$, $\lambda \overline{b} + 4\overline{c}$ and $(2\lambda - 1)\overline{c}$ are non-coplanar for
 - (a) All values of λ
 - (b) All except one value of λ
 - (c) All except two values of λ
 - (d) No value of λ

C

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- 37. Suppose values taken by a random variable X are such that $a \le x_i \le b$, where x_i denotes the value of X in the i^{th} case for i = 1, 2, 3, ... n, then

 - (a) $(b-a)^2 \ge Var(x)$ (b) $(a^2/4) \le Var(x)$
 - (c) $a^2 \le Var(x) \le b^2$ (d) $a \le Var(x) \le b$

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- 38. If ω is the cube root of unity, then the system of equations $x + \omega^2 y + \omega z = 0$, $\omega x + y + \omega^2 z = 0$, $\omega^2 x + \omega y$ +z=0 is
 - (a) Consistent and has unique solution
 - (b) Consistent and has more than one solution
 - (c) Inconsistent
 - (d) None of these

В

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39. If $x = \log_a bc$, $y = \log_b ca$, and $z = \log_c ab$, then

$$\frac{1}{1+x} + \frac{1}{1+y} + \frac{1}{1+z} =$$

(a) abc

(b) $\sqrt{ab} + \sqrt{bc} + \sqrt{ca}$

(c) 1

(d) x + y + z

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- 40. If $2^a = 3^b = 6^{-c}$ then ab + bc + ca =
 - (a) 1
- (c) 0

(d) None of these

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41. If e and e' be the eccentricities of a hyperbola and its

conjugate, then $\frac{1}{e^2} + \frac{1}{e^{2}} =$

- (a) 0
- (b) 1
- (c) 2

(d) None of these

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- 42. If a fair coin is tossed n times, then the probability that the head comes odd number of times is
 - (a) 1/2
- (b) $1/2^n$
- (c) $1/2^{n-1}$
- (d) None of these

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- 43. If $\sin (\pi \cos \theta) = \cos (\pi \sin \theta)$, then $\sin 2\theta =$

- (a) $\pm \frac{3}{4}$ (b) $\pm \frac{1}{3}$ (c) $\pm \frac{1}{4}$ (d) $\pm \frac{4}{3}$

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- 44. In which of the following regualr polygons, the number of diagonals is equal to number of sides?
 - (a) Pentagon
- (b) Square
- (c) Octagon
- (d) Hexagon

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- 45. One hundred identical coins each with probability P of showing up heads are tossed if 0 < P < 1 and the probability of heads showing on 50 coins is equal to that of heads on 51 coins; then the value of P is

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D

- 46. The equation $(\cos p 1) x^2 + (\cos p) x + \sin p = 0$ where x is a variable has real roots. Then the interval of p is
 - (a) $(0, 2\pi)$
- (b) $(-\pi, 0)$
- (c) $\left(\frac{-\pi}{2}, \frac{\pi}{2}\right)$
- (d) $(0, \pi)$

D

- NIMCET-2012 47. Number of real roots of $3x^5 + 15x - 8 = 0$ is
 - (a) 3

(b) 5

(c) 1

(d) 0

C

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- 48. The value of k for which the set of equations 3x + ky - 2z = 0, x + ky + 3z = 0 and 2x + 3y - 4z = 0 has a non-trivial solution, is
- (b) $\frac{17}{2}$
- (d) $\frac{33}{2}$

D

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- 49. If $x = log_3 5$, $y = log_{17} 25$, then which one of the following is correct?
 - (a) x > y
- (b) x < y (c) $x \le y$
- 50. If $A = \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$, then A^n for any natural number n is:
 - (a) $\begin{bmatrix} n & n \\ 0 & n \end{bmatrix}$

- (d) None of these.

ANALYTICALABILITY AND LOGICAL REASONING

- 51. In ROAST is coded as PQYUR in a certain language, then SLOPPY is codded in that language as:
 - (a) MRNAQN
- (b) NRMNQA
- (c) QNMRNA
- (d) RANNMQ.
- If Lelibroon means yellow hat, plakafroti means flower graden and frotimix means garden salad, then which word could mean "yellow flower"?
 - (a) Lelifroti
- (b) Lelipleka
- (c) Plekabroon
- (d) Frontibroon.
- 53. If +is *, -is +, *is / and / is -, then 6* 9* + 8/3? 20 is: (d) 12. C
 - (a) 2(b) 6(c) 10

54.	Ib a certain year there were exactly four Fridays and			ions 64 to 66) : Read	
	four Mondays in January. On what day of the week		passage carefully and answer the questios: Five		
	did the 20th January fall that year?		roommates Randy, Sally, terry, Uma and Vernon each		
	(a) Saturday (b) Sunday			task mopping, sweepin	
	(c) Thursday (d) Tuesday. B		vacuuming or dust	ting one day a week	, Monday
55.	The letters P, Q, R, S, T, U and V not necessarily in that		through Friday.		
	order represent seven consecutive integers from 22 to		* Vernon does not	vacuum and does not	do his task
	33 and :		on Tuesday.		
	1. U is as much less than Q as R is greater than S.		* Sally does the	dusting and does not	t do it on
	2. V is greater than U.		Monday or Friday.		
	3. Q is the middle term.			done on Thursday.	
	4. P is greater than S.			sk, which is not vacu	uming, on
	Then the sequence of letters from the lowest value of		Wednesday.		
	the highest value is:		* The laundry is do	one on Friday and not	by Uma.
	(a) TVPQRSU (b) TRSQUPV		* Randy does his t	ask on Monday.	
	(c) TUSQRPV (d) TVPQSRU. C	64.	The task done by Te	erry on Wednesday is	
56.	The minimum number of tiles of size 16 by 24 reuired		(a) Vacuuming	(b) Dusting	
	to form a square by placing them adjacent to one		(c) Mopping	(d) Sweeping.	D
	another is:	65.	The day on which th	e Vacuuming is done i	s:
	(a) 6 (b) 8		(a) Friday	(b) Monday	
	(c) 11 (d) 16. A		(c) Tuesday	(d) Wednesday	л. В
57.	Five persons K, L, M, N and O are sitting around a	66.	Sally does dusting o		
	dining table. K is the mother of M, M is actually the		(a) Friday	(b) Monday	
	wife of O, N is the brother of K and L is the husband of		(c) Tuesday	(d) Wednesday	. С
	K, how is N related to L?	67.	•	in the series : 2, 9, 28, 65	
	(a) Son (b) Cousin		344,:	, , ,	, , ,
	(c) Brother (d) Brother in-law. D		(a) 28	(b) 65	
58.	Three men A, B, C play cards. If one loses the game he		(c) 126	(d) 216.	В
	has to give Rs. 2. If he wins the game he will gain Rs.	68.	* *	ents of an adult school i	
	3 each from the other two losers. If A has won 3 games,			hose average is 32 years	•
	B loses Rs. 3, C wins Rs. 12, then the total number of			ult the average age is	
	games played is:			ber of students of the s	
50	(a) 12 (b) 21 (c) 20 (d) 6. A		joining of the new s		
39.	If a man walks at the rate of 4 kmph, he misses a trai by only 6 min. However if he walks at the rate of 5 kmph		(a) 1200	(b) 120	
	he reaches the station 6 minutes before the arrival of		(c) 360	(d) 240.	D
	the train. The distance covered by him to reach the		Questions 69 to 70 a	re based on the follov	ving:
	station is:			nd W are sitting round	_
	(a) 4 (b) 7 (c) 9 (d) 5. A		and are facing the co	entre. P is second to the	right of T,
60.	The missing number in the given series is		T is the neigbout of I	R and V, S is not the ne	ighbour of
	3, 6, 6, 12, 9, 12:		P, V is the neighbour	r of U, Q is not between	n S and W,
	(a) 15 (b) 18 (c) 11 (d) 13. C		and W isnot between	n U and S.	
61.	A man runs 20 m towards east and turns right, runs 10	69.	Which two of the fol	llowing are not neighb	ours?
	m and turns right, runs 9 m and turns left, runs 5 m and		(a) RV	(b) UV	
	turns left, runs 12 m and finally turns left and runs 6m.		(c) RP	(d) QW.	
	Which direction is the man facing?				A
	(a) North (b) South (c) East (d) West.	70.	What is the position	of S?	
	A		(a) Between U and V	•	
62.	In a club there are cerrtain number of males and females.		(b) Second to the rig	tht of P.	
	If 5 females are absent then female strenth will be 5		(c) To the immediate		
	times that of males. Number of males actually present		(d) Data inadequate.	•	D
	is:	71.		two digit number and	the sum of
	(a) 45 (b) 80 (c) 105 (d) 175.			umber is 4 : 1. If the c	
	В			than the digit in ten's	
63.	The missing number in the following series is		the number is:		
	6, 12, 21,, 48:		(a) 24	(b) 63	
	(a) 40 (b) 33 (c) 38 (d) 45. B		(c) 36	(d) 42. C	

72. Two positions of a dice are shown below. When number 1 is on the top, what number will be at the bottom?





(a) 2

(b) 3

(c)5

(d) cannot be determined.

73. A, B, C, D, E, F and G are sitting in a line facing East. C is immediate to the right of D, B is at one of the extreme ends and has E as his neighbor. G is between E and F, D is sitting third fro the south end. Who is sitting third from North?

(a) A

(b) E

(c) F

(d) G D

74. There is a family party consisting of two fathers, two mothers, two sons, one father-in-law, one mother-inlaw, one daughter-in-law, one grandfather, one grandmother and one grandson.

What is the minimum number of persons required so that this is possible?

(a) 5

(b) 6

(c)7

(d) 8. A

75. If A is brother of B, C is brother of B and A is brother of D, then which of the following must be true?

(a) A is bother of C

(b) B is brother of C

(c) D is brother of C

(d) B is brother of D. A

Questions 76 to 78 are based on the following:

Five houses lattered A, B, C, D and E are built in a row next to each other. the houses are lined up in the order A, B, C, D and E. Each of the five houses have colored roofs and chimneys. The roof and chimney of each house must be painted as follows:

- 1) the roof must be painted either green, red or yellow.
- 2) The chimney must be painted either white, black or red.
- 3) No house may have the same color chimney as the color of roof.
- 4) No house may use any of the same colors that adjacent house uses.
- 5) House E has a green roof.
- 6) House B has a red roof and a black chimney.
- 76. Which of the following is true?
 - (a) At least two houses have black chimeny.
 - (b) At least two houses have red roofs.
 - (c) At least two houses have white chimneys.
 - (d) At least two houses have green roofs. \mathbf{C}
- 77. If house C has a yellow roof, then which of the following must be true?
 - (a) House E has a white chimney.
 - (b) House E has a black chimney.
 - (c) House E has a red chimney.
 - (d) House D has a red chimeny.

Α

What is the maximum number of green roofs?

(a) 1

(b) 2

(c)3

(d) 4.

C

Krishna said, "This girl is the wife of grandson of my mother". How is krishna related to girl?

(a) Father

(b) Father-in-law

(c) Husband

(d) Grand father.

В

80. Instead of walking along two adjacent sides of a rectangular field, a body took a short cut along the diagonal of the field and saved a distance equal to half the longer side. The ratio of the shorter side of the rectangle to the longer side is:

(a) 1/2

(b) 2/3

(c) 1/4

(d) 3/4. D

81. Each word is parenthesis below is formed in a method. This method is used in all four examples:

SNIP(NICE) PACE

TEAR (EAST) FAST

TRAY (RARE) FIRE

POUT (OURS) CARS.

Based on this method, the word in the parenthesis of CANE (?) BATS is:

(a) NEAT

(b) CATS

(c) ANTS

(d) NETS. C

82. A study of native born residents in an area of Adivasis found that two-thirds of the children developed considerable levels of nearsightedness after starting school, while their illiterate parents and grandparents, who had no oppurtunity for formal schooling, showed no signs of ths disability.

If the above statements are true, which of the following conclusions is most strongly supported by them?

- (a) Only people who have the opportunity for formal schooling develop nearsightedness.
- (b) People who are illiterate do not suffer from nearsightedness.
- (c) The near sightedness in the children is caused by the visual stress required by reading and other class work.
- (d) Only literate people are near sighted. Questions 83 to 85 are based on the following:

A causes B or C, but not both

- Foccurs only if Boccurs.
- Doccurs if B or C occurs.
- E occurs only if C occurs
- Joccurs only if E or F occurs.
- D causes G or H or both.
- Hoccurs if E occurs.
- G occurs if F occurs.
- 83. If A occurs, which may occur?

I. Fannd G II. E and H

III. D

(a) I only.

(b) II only.

(c) I and III or II and III, but not both.

(d) I. II and III.

C

84. If B occurs, which must occur?

(a) D

(b) G

(c) H (d) J. Α

85. If J occurs, which must have occured?

(a) Both E and F (c) Both B and C (b) Either B or C

(d) None of these.

86.	Let x, y and z be distinct	integers x and y are odd	and	onsible for the greates	st;		
positive and z is even and positive. Which one of the indeed, savagery seems to			s to be in direct prop	ortion			
	following statements can	nnot be true?		to:			
	(a) $(x - z)^2$ y is even	(b) $(x - z) y^2$ is odd		(a) Wars; viciousness	(b) Catastrophes; il	l-will	
	(c) $(x - z)y$ is odd	(d) $(x - y)^2 z$ is even.	A	(c) Atrocities; developme	ent (d) Triumphs; civili	zation.	
87.	Pointing to a man in the					C	
	father of his brother is t			Fill in the blanks with th	ne correct form of tense	e.	
		is this man in photograph related to the lady? The thiefbefore the police					
	(a) Brother	(b) Son	·	(a) Escaped	(b) Had escaped		
	(c) Grandson	1.1	D	(c) Will escape	(d) Has been escap	and	
	* /			(c) will escape	(u) Has occir escap	B	
	Questions 88 to 90 are based on the following: Six boys A, B, C, D, E and F are marching in a line.		line 100	Fill in the blank with on	proprieta worde given		
	They are arranged accord	_		100. Fill in the blank with appropriate words gi			
						because as usual,	
		t the back and the shortest in the front. F is B and A, E is shorter than D but taller than C Peterhis wallet at home: (a) had left (b) was					
				(a) had left	(b) was leaving		
	who is taller than A, E a		I	(c) left	(d) leave.	A	
00	them. A is not the shorte	st among them.	101.	Pick the synonym of the			
88.	Where is E?	(1) D		(a) helpful	(b) abundant		
	(a) Between A and B	(b) Between C and A	_	(c) essential	(d) limited.	D	
	(c) Between D and C	(d) In front of C.	C 102.	Choose the words that	best express the mear	ning of	
89.	If we start counting from	n the shortest, which bo	by is	the given idiom - Mid Sl	inging:		
	fourth in the line?			(a) Giving pain.			
	(a)E (b)A	(c) D (d) C.	D	(b) Abusing someone.			
90.	Who is next to the short	est?		(c) Laying blame.			
	$(a) C \qquad \qquad (b) B$	$(c) E \qquad (d) F.$	D	(d) Damaging the reputa	ation	D	
			103	For a word, four spelling		_	
	GENERAL	<u>ENGLISH</u>	103.	one:	s are given. Choose the	COLLECT	
	In questions 91 to 97, f	ill in the blank with cor	rect	(a) cieling	(b) cealing		
	option to make a proper	sentece:		• • •		C	
91.	And how for this ev	vening's main headl	ine,	(c) ceiling	(d) ceeling.	C	
	Britainanother Olyn		104.	Choose the wrongly spe			
	(a) Had won	(b) Wins		(a) Believe	(b) Relieve		
	(c) Won	1.1	В	(c) Grieve	(d) Decieve.	D	
92.	If sheabout his fin	* *	ould 105.	105. Choose the word or phrase that is most sir meaning to the word - POLEMIC:		ilar in	
	have helped him out:	,					
	(a) knew	(b) had been knowing	7	(a) black	(b) magnetic		
	(c) had known	-	c	(c) grimace	(d) controversial.	D	
93.	I am sure she can teac	` '	106	Pick the antonym of the	word TIMID:		
75.	notnew to the subject	_		(a) bold	(b) lazy		
	(a) All together	(b) Altogether		(c) calm	(d) slow.	A	
	(c) Alltogether	•	107.	Pick the part of the sent	ence that has an error	. If you	
94.	_	itogether (d) rogether.		would have come to me		•	
<i>7</i> 1 .		(c) from (d) for.	D	(a) If you would have	(b) Come to me		
05	* * * * * * * * * * * * * * * * * * * *	* /	ь	(c) I would have	(d) Helped you.	A	
95.	The peopleyou soci		108	Choose the word or phra			
	(a) with whom	(b) who	l	in meaning to the word F		pposite	
0.6	(c) with who	· /	A	(a) Reputable	(b) Inherent		
96.	to school yester	•		• • •	(d) Cursory.	D	
	(a) Did you walk	(b) Did you walked	100	(c) Ambitious	•	. В	
	(c) Do you walk	(d) Have you walked	109.	Select the alternative g	_	ning of	
			A	the idiom - To eat a hum	_		
97.	There was noin the railway compartment for (a) To become a vegetarian						
	additional passengers :			(b) Disinfecting everyw	here.		
	(a) space	(b) place		(c) To fill one's belly.			
	(c) seat	()	C	(d) To say you are sorry	for a mistake thay you	made.	
98.	The sentence below has	2 blanks. Fill in the bla	anks			D	
	picking the appropriate	pair of words from the	ones 110.	Pick the antonym of the	word FABRICATE:		
	given below that best co	ompletes the meaning of		(a) Construct	(b) Weaken		
	sentence. The most t			(c) Dismantle	(d) Evolve	C	

COMPUTERAWARENESS

	<u>COM CIERAV</u>	VARIETIESS					
111. (2FAOC) ₁₆ is equivalent to:							
	(a) $(195084)_{10}$.						
	(b) (001011111010 00001100) ₂ .						
	(c) both (a) and (b).	-					
	(d) none of these.		В				
112.	The decimal equivalent of o						
112	(a) 81 (b) 72	(c) 71 (d) 61					
113.	s the flow of inform	ation					
	between: (a) cache memory and I/O devices.						
	(b) main memory and I/O devices.						
	(c) two I/O devices.						
	(d) cache and main memori	es.	В				
114.	Which of following device		me in				
	taking the backup of the data from a computer?						
	(a) Magnetic Disk	(b) Pen Drive					
	(c)CD	(d) Magnetic Tape.	C				
115.	ROM is a kind of:	., .					
	(a) primary memory	(b) cache memory					
	(c) removable memory	(d) secondary memo	ory.				
	•	•	Å				
116. The errors that can be pointed out by compile.							
	(a) Syntax	(b) Semantic errors					
	(c) Logical errors	(d) Internal errors.	A				
117.	Let $x = 11111010 \text{ day } y = 0$	00001010 be two 8-b	it 2's				
	complement numbers. Their	product in 2's comple	ement				
	notation is:						
	(a) 11000100	(b) 10011100					
	(c) 10100101	(d) 11010101.	A				
118.	118. The range of numbers that can be stored in 8 bits, i						
	negative numbers are store	ed in 2's complement	form				
	is:						
	(a) -128 to $+128$	(b) -128 to $+127$					
	(c) -127 to $+128$	(d) -127 to $+127$.	В				
119.	Primary storage isas	s compared to secon	ıdary				
	memory:						
	(a) slow and expensive	(b) fast and inexpens					
	(c) fast and expensive	(d) slow and inexper					
460	TTT 1 01 01		С.				
120.	20. Which of the following unit is used to supervise exinstruction in the CLIP?						
	instruction in the CUP?						
	(a) Control Unit	(b) Accumulator					

(d) Control Register. A

(c) ALU