ORIGINAL PAPER

- Which of the following is not a Language processor
 - (a) compiler
- (b) Loader
- (c) Interpreter
- (d) Assembler
- 2. If $(41)_6 = (121)_b$, then b is
 - (a) 1
- (b) 2
- (c) 3
- (d) 4
- 3. Match List I and List II and select correct group of matching.

List - I

List - II

P. RAM

- 1. Hertz
- Q. CPU Speed
- 2.MB
- R. Monitor
- 3.Bytes/Sec
- S. CD ROM Speed
- 4.Inch
- (a) (P,2), (Q,1), (R,4), (S,3)
- (b) (P.1). (Q.2). (R.3). (S,4)
- (c) (P.3), (Q.4), (R.2), (S.1)
- (d) (P.4). (Q.3). (R,1). (S,2)
- Bitcoin uses which network technology for transaction and mining.
 - (a) Peer to peer network
 - (b) Distributed Network
 - (c) Wide Area Network
 - (d) Intranct Network
- 5. The binary coding system that represents 256 different characters or bit combination is:
 - (a) BCD
- (b) ASCII
- (c) EBCDIC
- (d) Both b and c
- The hexadecimal subtraction (56)₁₆ from (427)₁₆ results in :
 - (a) $(3B1)_{16}$
- (b) $(331)_{16}$
- (c) $(371)_{16}$
- (d) $(3D1)_{16}$
- Which type of processors is ideal for Mobile phones and PDAs
 - (a) CISC
- (b) RISC
- (c) VISC
- (d) LISC
- 8. RAID stands for
 - (a) Reproduce Array of Intelligent Disks
 - (b) Reproduce Array of Inexpensive Disks
 - (c) Redundant Array of Inexpensive Drives

- (d) Redundant Array of Inexpensive Disks
- 9. Choose the ODD one out from the following:
 - (a) QWERTY
- (b) SULTRY
- (c) AZERTY
- (d) DVORAK
- 10. What does **XP** stands for in the operating system Windows XP?
 - (a) Extra Power
 - (b) Extended Product
 - (c) Extra Performance
 - (d) Experience
- The range of 2's complement representation of n bit signed integer is:
 - (a) -2^n to 2^n
 - (b) $-(2^{n-1}-1)$ to $(2^{n-1}-1)$
 - (c) -2^{n-1} to 2^{n-1}
 - (d) -2^{n-1} to $2^{n-1}-1$
- 12. Match List I and List II and select correct group of matching.

List - I

List - II

- 1.Procedural Oriented Language
- P. COBOL
- 2. Object Oriented Language
- Q. HTML
- 3. Business Oriented Language
- C. C++

4. Web Page

- D. Pascal
- (a) (1.S), (2.Q), (3.P), (4.R)
- (b) (1.S), (2.R), (3.P), (4.Q)
- (c) (1,P), (2,R), (3,S), (4,Q)
- (d) (1.S), (2.P), (3.Q), (4.R)
- 13. When a computer is switched on, the BIOS is loaded from:
 - (a) Hard Disk
- (b) RAM
- (c) ROM
- (d) CD Rom
- 14. Which of the following is not search engine:
 - (a) Zing
- (b) Google
- (c) Yahoo
- (d) Bing
- 15. 8 GB is equal to:
 - (a) 2^{30} bytes
- (b) 2^{33} bytes
- (c) 2²⁰ bytes
- (d) 2²³ bytes
- 16. x = 0.125E + 01. $x = (1.01)_2$ and $y = (1.2)_8$

- (a) x, y and z are equal
- (b) Only x and y are equal
- (c) Only x and z are equal
- (d) All x, y and z are different
- 17. The product of two binary numbers 00001101 and 00001111 is:
 - (a) 11000011
- (b) 01100011
- (c) 00001101
- (d) 00010010
- 18. Which of the following group of statements are correct:
 - P: Mouse. Keyboard and Plotter are all input devices.
 - Q: Unix, Windows and Linux are all operating
 - R. Register, Cache and Hard Disk are all memory modules.
 - S. Monitor. Printer and Scanner are all output devices.
 - (a) P.Q
- (b) P.S
- (c) R.S
- (d) Q.R
- 19. Which of the following or inventor of BITCOIN the famous crypto currency.
 - (a) Santoshi Nakomoto
- (b) Peter Thiel
- (c) Warren Buffet
- (d) Bitcoin.org
- 20. Which of the following group consists of volatile memory:
 - (a) RAM and Floppy Disk
 - (b) Hard Disk and ROM
 - (c) RAM and Cache
 - (d) Cache and ROM
- 21. Let A and B be two sets containing 2 elements and 4 elements respectively. The number of subsets of $A \times B$ having 3 or more elements is
 - (a) 256
- **(b)** 220
- (c) 219
- (d) 211
- 22. If A, B and C are three sets such that $A \cap B = A \cap C$ and $A \cup B = A \cup C$, then
 - (a) A = C
- (b) B = C
- (c) $A \cap B = \phi$
- (d) A = B
- 23. The value of tan⁻¹ (tan 13) is
 - (a) $\pi 13$
- (b) 13
- (c) $4\pi 13$
- (d) $-4\pi + 13$
- 24. $(\cot x \cdot \cot 2x \cot 2x \cdot \cot 3x \cot 3x \cdot \cot x)$ equals

- (a) $\cot x + \cot 2x + \cot 3x$
- (b) $\cot x \cot 2x \cot 3x$
- (c) l
- (d) 1
- 25. Value of $\tan\left(\frac{\pi}{8}\right)$ is
- (a) $\sqrt{2} 1$ (b) $1 \sqrt{2}$ (c) $1 \frac{1}{\sqrt{2}}$ (d) $1 + \frac{1}{\sqrt{2}}$
- 26. The number of complex numbers Z such that |Z-1| = |Z+1| = |Z-i|
 - (a) l
- (b) 2
- (c) ∞
- (d) 0
- 27. If ω is a cube root of unity and $(1+\omega)^7 = A + B\omega$, then A + B =
 - (a) l **(b)** 0
- (c) 2
- (d) 2
- 28. If x + y + z = 5 and xy + yz + zx = 3, then the least and greatest value of x are
 - (a) $\frac{10}{3}$, 5
- (b) $-1, \frac{13}{3}$
- (c) $-\frac{17}{3}$, 7 (d) None of these
- 29. The sum of integers from 1 to 100 that are divisible by 2 or 5 is
 - (a) 3000
- (b) 3050
- (c) 3600
- (d) 3250
- 30. The remainder when 27⁴⁰ is divisible by 12 is

 - (a) 3 (b) 7
- (c) 9
- 31. The sum of the series $1 + \frac{1}{4.2!} + \frac{1}{64.6!} + \cdots \infty$
 - (a) $\frac{e-1}{\sqrt{e}}$

- (c) $\frac{e-1}{2\sqrt{e}}$ (d) $\frac{e+1}{2\sqrt{e}}$
- 32. If the sum of two numbers is 6 times their geometric mean, then the numbers are in the ration
- (b) $\frac{3+2\sqrt{2}}{3-2\sqrt{2}}$

- 33. The orthocenter of the triangle formed by (0,0), (4,0) and (3,4) is

 - (a) (2,0) (b) $(\frac{3}{2},2)$
 - (c) $\left(\frac{3}{4}, 3\right)$ (d) $\left(3, \frac{3}{4}\right)$
- 34. A ray of light passing through the point (1,2) reflects on the X - axis at point A and the reflected

ray passes through the point (5,3), the coordinates of A are

- (a) (5,0)
- (b) (-5.0)
- (c) $\left(\frac{13}{5}, 0\right)$ (d) $\left(-\frac{13}{5}, 0\right)$
- 35. From a point on the circle $x^2 + y^2 = a^2$, tangents are drawn to the circle $x^2 + y^2 = b^2$, the chord of contact of these tangents is tangent at $x^2 + y^2 = c^2$, then a, b and c are in
 - (a) AP
- (b) GP
- (c) HP
- (d) None
- 36. If the chord of contacts of tangents from a point P to the parabola $y^2 = 4ax$ touches the parabola $x^2 = 4bv$, the locus of P is
 - (a) Circle
- (b) Parabola
- (c) Ellipse
- (d) Hyperbola
- 37. A man running a race course notes that the sum of the distances from two flag posts from him is always 10m and the distance between the flag posts is 8.. The equation of path traced by man is

 - (a) $\frac{x^2}{25} + \frac{y^2}{9} = 1$ (b) $\frac{x^2}{9} + \frac{y^2}{25} = 1$

 - (c) $\frac{x^2}{9} \frac{y^2}{25} = 1$ (d) $\frac{y^2}{9} \frac{x^2}{25} = 1$
- 38. The vertices of parallelogram ABCD are (3, -1, 2). B = (1, 2, -4) and C(-1, 1, 2). The fourth vertex D is
 - (a) (1,2,8)
- (b) (1, -2.8)
- (c) (-2,1,8)
- (d) (-2, -1, 8)
- 39. If all the word with or without meaning formed using all the letters of the word JAMIA are arranged in dictionary then what will be the 50th word
 - (a) AAJMI
- (b) AAMIJ
- (c) JAAMI
- (d) MAAJI
- 40. Evaluate $\lim_{x\to 0} \left[\frac{\sin x}{x}\right]$, where [] denotes the greatest integer function
 - (a) ()
- (b) 1
- (c) 1
- (d) Does not exists
- 41. Evaluate $\lim_{x\to 0} \frac{\sqrt{1-\cos 2x}}{x}$
 - (a) $\sqrt{2}$
- (c) I
- (d) does not exists

- 42. The mean of 5 observations is 4.4 and their variance is 8024. If three of the observations are 1.2 and 6, the other two observations are
 - (a) 4 and 5
- (b) 5 and 9
- (c) 4 and 9
- (d) 5 and 8
- 43. Three letters are dictated to three persons and an envelope is addressed to each of them, the letters are inserted into the envelope at random so that each envelop contains exactly one letter. What is the probability that at least one letter is in its proper envelop
 - (a) $\frac{1}{2}$ (b) $\frac{2}{3}$

- 44. A tourist visits Four cities A,B,C and D in a random order. What is the probability that he visits A before B.
 - (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (a) $\frac{1}{2}$
- 45. The function $f: [0,3] \rightarrow [1,29]$ defined by $f(x) = 2x^3 - 15x^2 + 36x + 1$ is
 - (a) one one and onto
 - (b) one but not one one
 - (c) one -one but onto
 - (d) neither one-one nor onto
- 46. If $f: R \to R$ be given by $f(x) = (3 x^3)^{\frac{1}{3}}$, then f(f(f(x))) is
- (a) $x^{\frac{1}{3}}$ (b) x^3 (c) x (d) $3-x^3$
- 47. If the matrix A is both symmetric and skew symmetric, then
 - (a) A is a diagonal Matrix
 - (b) A is a null matrix
 - (c) A is a square Matrix
 - (d) None of these
- 48. If $A = \begin{pmatrix} 2 & -3 \\ -4 & 1 \end{pmatrix}$, then $adj(3A^2 + 12A)$ is equal

- (a) $\begin{pmatrix} 72 & -84 \\ -63 & 51 \end{pmatrix}$ (b) $\begin{pmatrix} 51 & 63 \\ 84 & 72 \end{pmatrix}$ (c) $\begin{pmatrix} 51 & 84 \\ 63 & 72 \end{pmatrix}$ (d) $\begin{pmatrix} 72 & -63 \\ -84 & 51 \end{pmatrix}$ 49. If a, b, c are in AP then value of the

	(a) 0 (b) 1 (c) x (d) $2x$
50.	If a determinant of order 3×3 is formed using the
	numbers 1 or -1 , then the minimum value of
	determinant is
	(a) -2 (b) -4 (c) 0 (d) -8
51.	Number of points at which
	$f(x) = \min(x , x+1 , x-4)$ is not
	differentiable
	(a) 3 (b) 4 (c) 5 (d) 6
52.	Consider the functions $f(x)$ and $g(x)$ such that
	$f(x) = x + [x]$ and $g(x) = x \times [x]$, where [x]
	denotes the greatest integer function
	(a) $f(x)$ is continuous at $x = 1$, $g(x)$ is continuous
	at $x = 1$
	(b) $f(x)$ is continuous at $x = 1$. $g(x)$ is
	discontinuous at $x = 1$
	(c) $f(x)$ is discontinuous at $x = 1$. $g(x)$ is
	continuous at $x = 1$
	(a) $f(x)$ is discontinuous at $x = 1$. $g(x)$ is
	discontinuous at $x = 1$
53.	$\lim_{x\to\infty} \left(1+\frac{a}{x}+\frac{b}{x^2}\right)^{2x}=e^2$, then values of a and
	b are
	(a) $a \in R, b \in R$ (b) $a = 1, b \in R$
	(c) $A \in R, b = 2$ (d) $a = 1, b = 2$
54	If m is the slope of the tangent at any point on the
• • •	curve $e^y = 1 + x^2$, then
	(a) $ m > 1$ (b) $ m \le 1$
	(c) $ m < 2$ (d) $ m \ge 2$
55	Let $f(x) = (x^3 + ax^2 + bx + 5\sin^2 x)$ be
55,	increasing for all $x \in R$, then a and b satisfies
	(a) $a^3 - 3b - 15 > 0$ (b) $a^3 - 3b + 15 > 0$
	(a) $a^3 - 3b - 15 > 0$ (b) $a^3 - 3b + 15 > 0$ (c) $a^3 - 3b + 15 < 0$ (d) $a^3 - 3b - 15 < 0$
= 6	
30.	The point of extremum of the function $f(x) =$
	$\int_{1}^{x} e^{-\frac{t^{2}}{2}} (1-t^{2}) dt$ are
	(a) ± 1 (b) 0 (c) $\pm \frac{1}{2}$ (d) ± 2
57.	Value of $\int_1^2 e^{2x} \left(\frac{1}{x} - \frac{1}{2x^2} \right) dx$ is
	(a) $\frac{e^2(e^2-4)}{e^2(e^2+4)}$ (b) $\frac{e^2(e^2+4)}{e^2(e^2+4)}$
	(a) $\frac{e^2(e^2-4)}{4}$ (b) $\frac{e^2(e^2+4)}{4}$ (c) $\frac{e^2(e^2+2)}{2}$ (d) $\frac{e^2(e^2-2)}{2}$
	(c) $\frac{1}{2}$ (d) $\frac{1}{2}$

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58. Value of \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} (x^3 + x \cdot \cos x + \tan^3 x + 1) dx is

(a) -\frac{\pi}{2} (b) 0

(c) 2\pi (d) 3\pi

59. \int \frac{d\theta}{1-\tan\theta} equals to
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59. $\int \frac{d\theta}{1-\tan\theta} = \text{equals to}$ $(a) \frac{\theta}{2} - \frac{1}{2} \log|\cos\theta - \sin\theta| + C$ $(b) \frac{\theta}{2} + \frac{1}{2} \log|\cos\theta - \sin\theta| + C$ $(c) \frac{\theta}{3} - \frac{1}{3} \log|\cos\theta - \sin\theta| + C$

(d) $\frac{\theta}{3} + \frac{1}{3}\log|\cos\theta - \sin\theta| + C$ 60. If $|\hat{a} + \hat{b}| = |\hat{a} - \hat{b}|$, then

(a) \hat{a} is parallel to \hat{b} (b) \hat{a} is perpendicular to \hat{b}

(c) $\hat{a} = \hat{b}$

(d) None

61. Distance between the two planes 2x + y + 2z = 8 and 4x + 2y + 4z + 5 = 0 is

(a) $\frac{3}{2}$ units (b) $\frac{5}{2}$ units (c) $\frac{7}{2}$ units (d) $\frac{9}{2}$ units

62. A man known to speak truth 3 out of 4 time. He throws a die and report that it is a six. The probability that it is actually a six is

(d) $\frac{3}{8}$

probability that it is actually a six is
(a) $\frac{1}{8}$ (b) $\frac{5}{8}$ (c) $\frac{7}{8}$

63. The probability of shooter hitting a target is $\frac{3}{4}$. The minimum number of times that he must fire so that the probability of hitting the target at least once is more than 0.99 is

more than 0.99 is
(a) 2 (b) 3 (c) 4 (d) 5

64. A and B are two independent events such that P(A) = 0.3, P(B) = 0.6, then P(neither a nor B) is

(a) 0.28 (b) 0.30 (c) 0.32 (d) 0.18

65. Periods of the function $f(x) = \cos\left(\frac{2x}{3}\right) - \sin\left(\frac{4x}{5}\right)$ is

(a) 5π (b) 10π (c) 15π (d) 20π

66. Which of the following is not an indeterminate	73. Which of the following words have similar
form	meaning:
(a) 0^0 (b) 0^{∞} (c) ∞^0 (d) 1^{∞}	I. Cacophonic
67. The area of the region described by	II. Calligraphic
$A = \{(x, y): x^2 + y^2 \le 1 \text{ and } y^2 \le 1 - x\}$	III. Calamitous
(a) $\frac{\pi}{2} + \frac{4}{3}$ (b) $\frac{\pi}{2} - \frac{4}{3}$	IV. Catastrophic
(c) $\frac{\pi}{2} - \frac{3}{3}$ (d) $\frac{\pi}{2} + \frac{3}{3}$	V. Contraindicative
	VI. Cataclysmic
68. A curve passes through the point $\left(1, \frac{\pi}{6}\right)$. Let the	(a) IV and VI Only
slope of the curve at each point (x, y) be	(b) I, II and V only
$\frac{y}{x} + \sec\left(\frac{y}{x}\right), x > 0$. Then the equation of the curve	(c) II, V and VI only
is	(d) III, IV and VI Only
	74.
(a) $\sin\left(\frac{y}{x}\right) = \log x + \frac{1}{2}$	I. He is the most of the speakers to
(b) $\cos\left(\frac{2y}{x}\right) = \log x + 2$	address us today. II. The belief in justice is the essence of
(c) $\sec\left(\frac{2y}{x}\right) = \log x + 2$	his talk.
(d) $\cos\left(\frac{2y}{x}\right) = \log x + \frac{1}{2}$	III. This hall would have been full but for the Rain.
(0, 1, 1, 0, 0)	IV. Many in the audience have achieved
69. Let $P = \begin{bmatrix} 0 & \omega \\ \omega & 0 \end{bmatrix}$, where ω is a cube root of unity.	in their respective fields.
Then P^{24} is	alon rospectivo riolas.
(a) P^2 (b) P	Which of the following sequence of words
(c) Identity Matrix (d) Null Matrix	would most appropriately fit the blanks in the
70. The area bounded by the curve is $y^2 = x$ and	sentences given above?
$x^2 = y$ is	(a) Eminent, Imminent, Immanent, Eminence
(a) $\frac{1}{3}$ (b) $\frac{2}{3}$ (c) $\frac{4}{3}$ (d) $\frac{5}{3}$	(b) Immanent, Imminent, Imminence. Eminence
71. Choose the most appropriate word from the option	(c) Eminent, Immanent, Imminent, Eminence
given below to complete the following sentence.	(d) Eminent, Immanent, Imminent, Imminence
Given the seriousness of the situation that he	75. Clinical Practitioners integrated
had to face, his Was impressive.	mindfulness treatment of
(a) Beggary (b) nome ncla ture	host of emotional and behavioral
(c) nonchalance (d) jealousy	disordersborderline personality
72. Select the option, which would best fill in the	disorder, major depression, chronic pain, eating
blanks as follows.	disorders. Number f such practitioners
Football evokes aresponse in India	increased substantially.
compared to cricket, the almost The	(a) have, in the, a, such as, has
nation.	(b) has, in the, the, like, have
(a) tepid. boiling	(c) were, for, a, like, has
(b) lukewarm, electrifies	(d) have, for, a, like, has
(c) turbid, fascinating	76. Choose the statement where underlined and bold
(d) apocryphal, genuinely fascinates	word is used correctly.

	I. The minister insured the victims that everything		watches are started together, how many times they
	would be all right.		will tick together in the first hour?
	II. He ensured that the company will not have to		(a) 110 times (b) 101 times
	bear any loss.		(c) 320 times (d) 210 times
	III. The actor got himself ensured against any	84.	Rama gets an elevator at 11th floor of a multi -
	accident.		storey building an rides up at the rate of 57 floors
	IV. The teacher insured students of good results.		per minutes. At the same time, Somya gets another
	(a) I (b) II (c) III (d) IV		elevator at the 51st floor of the same building and
77.	The word similar to meaning of Dreary ' is		rides down at the rate of 63 floors per minute. It
	(a) Cheerful (b) Dreamy		they travel at these, at which floor they will cross
	(c) Hard (d) Dismal		each other?
78.	Choose the appropriate word from the options		(a) 19 (b) 28 (c) 30 (d) 32
	given below to complete the following sentence.	85.	If 7 parallel lines are intersected by another set of 7
	The official answered that the		parallel lines, the number of parallelograms formed
	complaints of the citizens would be looked into.		is:
	(a) Respectably (b) Respectfully		(a) 441 (b) 400 (c) 49 (d) 98
	(c) Reputably (d) Respectively	86.	The result of a class were declared. The boy X
79.	Which of the following sentence is/are		stood 5 th in the class. The girl was 8 th from the last
	grammatically incorrect?		The position of the boy 'Z', was 6th after 'X', and
	I. Bats are able to fly in the dark.		in the middle of 'X' and 'Y'. The total number of
	II. Bats can fly in the dark.		students in the class was:
	III. Bats have the ability of flying in the dark, if it		(a) 24 (b) 29 (c) 25 (d) 26
	does not rain.	87.	A is 300 days older to B and C is 50 weeks older
	IV. Bats cannot fly in the dark if it rains.		to A. If C was born on Tuesday, on which day was
	V. Bats have the ability for flying in the dark.		B bom?
	(a) III and IV only (b) I only		(a) Tuesday (b) Thursday
00	(c) II and IV Only (d) V and II Only		(c) Wednesday (d) Monday
80.	Which is not the antonym of SANITY	88.	Branches of 5 nationalized banks A. B. C. D and E.
	(a) LANANCY (b) INSANITY		in Uttar Pradesh are as follows:
0.1	(c) STUPIDITY (d) RATIONALITY		A. B. C. D and E are in Lucknow and Kanpur.
01.	A, B and C scored 681 runs such that four times		A. B and E are in Kanpur and Allahabad. B. C. and D are in Lucknow and Varanasi.
	A.s run is equal to 5 times B's run which is equal to 7 times C's run. Difference between A's and C's		B. E and D are in Allahabad and Saharanpur.
	run is.		C. E and D are in Saharanpur and Moradabad?
	(a) 105 (b) 150 (c) 97 (d) 125		Which bank has branches in all the cities excep
82	When the price of computer was reduced by 20%		Moradabad?
02,	the sale increased by 60%. What was increase in		(a) A (b) B (c) C (d) D
	total revenue?	89	Select ODD ONE OUT from the following pairs:
	(a) 30% (b) 28%	02.	(a) May: January
	(c) 55% (d) 40%		(b) September : November
83	A watch ticks 90 times in 95 seconds and another		(c) October : April
	watch ticks 315 times in 323 seconds. If both the		(d) January : December
	mater dens ses times in 323 seconds. It dotte the	I	(a) amount, i we desired.

- 90. If A + B means A is the daughter of B, $A \times B$ means A is the son of B and A B means A is the wife of B, then $P \times Q S$ means
 - (a) S is the father of P
 - (b) Q ia the daughter of
 - (c) A is the father of Q
 - (d) None of these
- 91. In the following series 50 is wrongly placed. Which number will come at place of 50?
 - (a) 51
- (b) 53
- (c) 48
- (d) 49
- 92. Jamia Central Library has 510 visitors on Sundays and 240 visitors on other days. Then the average number of visitors per day in a 30 days month beginning with a Sunday is:
 - (a) 285
- (b) 276
- (c) 250
- (d) 280

- 93. 6:43::5:?
 - (a) 63
- (b) 52
- (c) 26
- (d) 31
- 94. Next term in the following series is:
 - 122, 197, 290, ...
 - (a) 399
- (b) 400
- (c) 401
- (d) 402
- 95. Select the ODD number from given alternatives:
 - (a) 2179
- (b) 3375
- (c) 4099
- (d) 2744
- 96. In the following series how many '8' are there which are not proceeded by '7' and followed by '9'.
 - 7, 8, 9, 9, 8, 5, 4, 3, 8, 9, 5, 8, 9, 8, 7, 7, 8, 9
 - (a) One
- (b) Two
- (c) Three
- (d) Four
- 97. Looking at a portrait of a man. Sanjay said, "His mother is the wife of my father's sons". Brother and sisters I have none". At whose portrait was Sanjay looking
 - (a) His son
- (b) His nephew
- (c) His cousin
- (d) His uncle
- 98. In a certain code LATE is written as PEXI then code for TRACE is:
 - (a) XUEGH
- (b) XVFGI
- (c) XVEGI
- (d) MVELI
- 99. Statement:
- S1: Some cats are rats.
- S2: All rats are bats.
- S3: Some bats are birds.

- Conclusion: C1: Some birds are cats.
 - C2: Some bats are cats.
 - C3: Some birds are rats.
 - C4: No birds is a rat.

Which is the conclusions(s) follows from the above statements \$1, \$2 and \$3:

- (a) Only C3 follows
- (b) Either C1 or C4 and C3 follows.
- (c) Either C1 or C4 and C2 follows.
- (d) None of these
- 100. A liquid container is usually filled up in 8 hrs. Due to a leak since the beginning it took 2 hours more to fill up the container. The leak empty the filled container in:
 - (a) 30 hrs.
- (b) 40 hrs
- (c) 28 hrs
- (d) 34 hrs.