I.	A box has 5 blacks and 3 green shirts. One shirt is picked randomly and put another box. The second box has 3 black and 5 green shirts. Now a shirt is picked from second box. What is the probability of it being a black shirt? (a) $\frac{4}{9}$ (b) $\frac{29}{72}$ (c) $\frac{8}{72}$ (d) $\frac{3}{16}$	at (100,100). Their met point is decided as (0,0) Given that they travel in straight lines, will they meet? (a) They will meet (b) They will not meet (c) They meet with probability 0.5				
2	What is the probability of getting a sum 9 from two	(d) None of these 11. The graph of the function $y = f(x)$ is symmetrical				
-	throws of dice? (a) $\frac{1}{2}$ (b) $\frac{1}{9}$ (c) $\frac{1}{12}$ (d) $\frac{2}{9}$	about the line $x = 2$, then (a) $f(x + 2) = f(x - 2)$				
3.	The predicted rate of response of the dependent	(b) $f(2+x) = f(2-x)$				
	variable to change in the independent variable is	(c) f(x) = f(-x) $ (d) f(x) = f(-x)$				
	called:	(d) $f(x) = -f(-x)$ 12. $\cos^2 2\theta = ?$				
	(a) Slope (b) Intercept	(a) $1 - \sin^2 \theta$				
	(c) Error (d) Regression equation	(b) $1 + \sin^2 \theta$				
4.	If the value of any regression coefficient is zero., then	(c) $1 - \sin^2 2\theta$				
	two variables are: (a) Qualitative (b) Correlation	(d) $1 - \sin \theta$				
		13. Considering Cosine Rule of any triangle ABC				
-	(c) Dependent (d) Independent If the mean is 11 and median is 13, then value of mode	possible measures of angle A includes				
Э.	is	(a) angle A is obtuse				
	(a) 15 (b) 13 (c) 11 (d) 17	(b) angle A is acute				
6	Which term of the AP 92, 88, 84, 80, is 0?	(c) angle A is right angle				
o.	(a) 22 (b) 23 (c) 24 (d) 32	(d) all of above				
7	(1) + (1+1) + (1+1+1) + (1+1+1+ n - 1 times) = ?	14. For a skew symmetric even ordered matrix A or				
	() ()	integers, which of the following will not hold true?				
	2	(a) $det(A) = 9$ (b) $det(A) = 81$				
	(c) n^2 (d) n	(c) $det(A) = 7$ (d) $det(A) = 4$				
8.	If roots of $x^2 - 5x + a = 0$ are equal, then $a = ?$	15. Which of the following property of matrix				
	(a) $\frac{25}{5}$ (b) $\pm \frac{25}{4}$	multiplication is correct?				
	(c) $\frac{25}{4}$ (d) None pof above	(a) Multiplication is not commutative in general				
0	Given that limit exits find	(b) Multiplication is associative				
9.		(c) Multiplication is distributive over addition				
	$lt_{(x,y,x)\to(-2,-2,-2)} \frac{\sin((x+2)(y+5)(z+1))}{(x+2)(y+7)}$	(d) All of the mentioned				
	(a) 1 (b) $3/5$ (c) $1/2$ (d) 0	16. The area enclosed by $3 x + 4 y \le 12$ is				
10.	Two men on a $3 - D$ surface want to meet each other.	(a) 6 square units (b) 12 square units				
	The surface is given by $f(x, y) = \frac{x^{-6} \cdot y^7}{x+y}$.	(c) 24 square units (d) 36 square units				
		17. Power set of empty set has exactly subset. (a) one (n) two (c) zero (d) three				
	They make their move horizontally or vertically with	(11)				
	the $X - Y$ plane as their reference. It was observed that one man was initially at (200, 400) and the other	18. Transpose of a column matrix is (a) zero matrix (b) diagonal matrix				
	'					
	https://www.iamiastudy.com					

19. Constant zero solution of linear ordinary differential graphical representation is classified as equation is called (a) region of ordinate solutions (a) trivial equation (b) bypass equation (b) region of intercept solutions (d) singular equation (c) region of vertex solutions (c) logical equation (d) region of feasible solutions 20. Dot product of two vectors \vec{a} and \vec{b} is termed as 31. Points within set are connected by line segment must (b) inner product (a) outer product follow condition that points must be (c) Cartesian Product (d) Vector Product (a) included in set 21. If $f(x) = \max\{x, x^3\}$, then the number of points (b) not included in set where f(x) is not differentiable, are (c) included in function (d) 4(a) I (b) 2 (d) included in objective 22. If $y = a \log |x| + bx^2 + x$ has its extreme values at 32. In mathematical programming, goals represented by x = -1 and x = 2, then objective function include. (b) $a = 2, b = -\frac{1}{2}$ (a) a = 2, b = -1(a) profit level (c) $a = -1, b = \frac{1}{2}$ (d) None of these (b) total cost and revenue (c) percent rate on investment 23. If A and B are coefficient of x^n in the expansion of $(1+x)^{2n}$ and $(1+x)^{2n-1}$ respectively, then A/B(d) all of baove 33. Coordinates of midpoint of line joining two points equals (16,4) and (36,6) are (d) 1/n(c) 1/2(a) 1 (b) 2 (a) (26,5) **(b)** (5,26) 24. What is the cardinality of the Power set of the set (c)(10,1)(d) (1,10) $\{0, 1, 2\}$ 34. In how many ways can a group of 5 men and 2 women (c) 7(d) 9 (a) 8(b) 6be made out of a total 7 men and 3 women? 25. Consider a line passing through (1,2) and (4,8), (b) 90 (a) 63 gradient of this line is equal to: (d) None of these (c) 126 (a) $\frac{1}{2}$ (b) $-\frac{1}{3}$ (d) -2(c) 2 35. For individual observations, reciprocal of arithmetic 26. If ω is an imaginary cube root of unity, then mean is called $(1 + \omega - \omega^2)^7$ is equal to (b) harmonic mean (a) geometric mean (b) -128ω (a) 128ω (c) deviation square mean (d) paired mean (c) $128\omega^2$ (d) $-128\omega^2$ 36. AP whose n^{th} term is 2n-1 is 27. The complex number $(\sin x + i \cos 2x)$ (a) $1, 3, 6, \dots$ $(\cos x - i \sin 2x)$ are conjugate to each other, for (b) 2, 3, 5, ... (b) x = 0(a) $x = n\pi$ (c) 1, 3, 5, ... (c) $x = \left(n + \frac{1}{2}\right)\pi$ (d) No value of x (d) 5, 3,1 ... 37. The equation of the straight line passing through the 28. The points z1, z2, z3, z4 in the complex plane are the point (3,2) and perpendicular to the line y = x is vertices of a parallelogram taken in order, if and only (a) X - Y = 5(b) X + Y = 5iť (d) X - Y = 1(c) X + Y = 1(a) z1 + z4 = z2 + z338. Specifying a straight line, how many geometrical (b) z1 + z3 = z2 + z4parameters should be known? (c) z1 + z2 = z3 + z4(c)3(b) 2(d) None of these 39. A point equidistant from the lines 4x + 3y + 10 = 0. 29. Linear programming model which involves fund 5x - 12y + 26 = 0 and 7x + 24y - 50 = 0 is allocation of limited investments is classified as (a) (1,-1)(b) (1,1)(a) Ordination budgeting model (c)(0,0)(d)(0,1)(b) capital budgeting models 40. One vertex of the equilateral triangle with Centroid at (c) fund investments models origin and one side as x + y - 2 = 0 is (c) funds origin models https://www.jamiastudy.com

30. According to the system of constraints, solution set

(c) column matrix

(d) row matrix

	(a) $(-1, -1)$	(b) (2,2)
	(c) $(-2, -2)$	(d) $(2, -2)$
41.	Two bus tickets from city	A to B and three tickets
	from city A to Ccost Rs.77	but three tickets from city
	A to Coost Rs. 73. What are	e the fares for cities B and
	C from A?	
	(a) Rs.17, Rs. 13	(b) Rs.4, Rs. 23
	(c) Rs. 13, Rs.17	(d) Rs. 15, Rs. 14
42.	In the group $G = \{2,4,6\}$	
	modulo 10, the identity elen	
12	(a) 6 (b) 8	(c) 4 (d) 2
+0.	A partition of {1, 2, 3, 4, 5} i	n the rainny
	(a) {(1,2), (3,4), (3,5)} (b) {\$\phi\$, (1,2), (3,4), (5)}	
	(c) $\{(1,2,3), (5,4), (5)\}$	
	(d) {(1,2), (3,4,5)}	
44	Let $P(S)$ denote the power	set of set S. Which of the
• • •	following is always true?	
	- ·	(b) $P(S) \cap S = P(S) \setminus$
	(c) $P(S) \cap P(P(S)) = [\phi]$	-
45	Find the remainder when 67	
٠,,,	(a) 4 (b) 6	(c) 1 (d) 2
46.	G(e,a,b,c) is an abeli an	
	element. The order of the ot	
	(a) 2, 2, 3 (b) 3, 3	3, 3
	(c) 2, 2, 4 (d) 2, 3	3, 4
47.	Period of 3 sex $\frac{x}{3}$ is	
	(a) π (b) 2π	(c) 3π (d) 6π
48.	The principal value of cos-	¹ (cos 5) is
	(a) 5 (b) π -	
	(c) $5 - \pi$ (d) 2π	
49.	If $\sin t = \frac{1}{5}$ and $0 < t < \frac{\pi}{2}$.	then $cos(4t) = ?$
	(a) 0.3464	(b) 0.8
	(c) 0.6928	(d) -0.6928
50.	Find the value of $\int \frac{1}{4x^2+4x+5}$	-dx is
	(a) $\frac{1}{8}\sin^{(-1)}\left(x+\frac{1}{2}\right)$	
	(b) $\frac{1}{4} \tan^{(-1)} \left(x + \frac{1}{2} \right)$	
	(c) $\frac{1}{9} \sec^{(-1)} \left(x + \frac{1}{2} \right)$	
	0 (2)	
	(d) $\frac{1}{4}\cos^{(-1)}\left(x+\frac{1}{2}\right)$	
51.	A computer controlled dev	
	that duplicates the work env	
	(a) Simulator	(b) Duplicator

(a) Simulator

(c) Trainer

business because they use a single processing unit too link several (b) Workstations (a) Personal Computers (c) Dumb terminals (d) Mainframes 53. Which part of the computer is used for calculating and comparing? (b) Control Unit (a) Disk Unit (d) Modem (c) ALU 54. Which of the following memories need refresh? (a) SRAM (b) DRAM (d) All of the above (c) ROM 55. The ALU of a computer normally contains a number of high speed storage element classed (a) Semiconductor memory (b) Registers (c) Hard Disk (d) Magnetic Disk 56. The representation of decimal number 532.86 in the form of decimal is (a) 532.65 (b) 532.68 (c) 531.67 (d) 531.68 57. The quantity of **double** word is (b) 16 bits (a) 8 bits (d) 64 bits (c) 32 bits 58. Which protocol provides e- mail facility among different hosts? (b) SMTP (a) FTP (d) SNMP (c) TELNET 59. COCOL is an acronym for (a) Common Basics Oriented Language (b) Common Oriented Business Language (c) Common Business Oriented Language (d) None 60. Which of the following are real time systems? (a) an on-line real reservation system (b) a process control system (c) Aircraft control System (d) Payroll processing system 61. Which one of the following input devices is userprogrammable? (b) Smart Terminal (a) Dumb terminal (c) VDT (d) Intelligent terminal 62. A name or number used to identify a storage location is called

(b) A record

(d) All of above

(d) None

52. Multi user systems provided cost savings for small

(a) A byte

(c) An address

63. Full form of URL is?

(a) Uniform Resource Locator

	(b) Uniform Resource Link		74.	What shot	ıld come next	in the follow	ving numbe
	(c) Uniform Registered Link			series?			-
	(d) Unified Resource Link			987654	321876543	32176543	2 1
64.	Second generation of comp	outers consists of which of		(a) 9	(b) 8	(c) 6	(d) 5
	the following?		75.		T. U. V and W		
	(a) Vacuume Tubes	(b) Diodes		-	ing the centre:	C	
		(d) Transitors			ond to the right	of T who is th	e neighbor o
65	MPG is an extension of which			R and V	-		
0	(a) Audio	(b) Image			neighbor of P.		
	(c) Video	(d) Flash			neighbor of U.		
66	Which is odd one?	(0)			between S and	W. W is not be	etween U an
<i>(</i> ,	(a) Inkjet Printers	(b) CRT		S.	The trade of the t		
	(c) Laser Printers	(d) Dot Matrix Printers		_	no is sitting opp	osite to U?	
67	Which type of switching is t	* *		(a) Q	(b) R	(c) P	(d) W
07.	(a) Packet (b) Tel		76		ded had 27 she		
	(c) Circuit (d) Tel	•	'\'.	many he le			.,
40	What is the meaning of OSL			(a) 17	(b) 27	(c) 10	(d) Zero
uo.	(a) Open Software Interrelat	_	77	•	* *		
	•		77. A is three times old as B. C was twice – as old as a four years ago. In dour years time, a will be 31. What				
	(b) Open System Interrelation (c) Open software Interconnection			-	ent ages of B ar		00 51
	(d) Open System Interconne			(a) 9, 50	iem ages of D at	(c) 9, 4 6	
20				(c) 10, 46		(d) 10, 50	
09.	. What is meaning of EEPROM?		70	* *	of 15 peo ple, 7 i	•	Read Englis
	a) Electronically Erasable Programmable Read Only		/0.		them read none		
	Memory b) Electrically Erasable Programmable Read Only				French and Engl		inom inally c
	•	rogrammable Read Only		(a) 15	(b) 12	(c) 18	(d) 20
	Memory	na Dannamanahla Danah	70	, .			
	c) Electronically Erasable Programmable Reach		79. Find the least number which leaves a remainder of when divided by 5, 6, 7 and 8, but leaves no remainde				
	Only M emory d) Electrically Erasable Programmable Reach Only			when divid	*	a o, but leaves	no remande
		rogrammable Reach Only		(a) 1458	(b) 1683	(c) 1692	(d) 1598
	Memory		on.		e wrong numbe		
7().	Which among following is responsible for finding and		<u></u>	numbers.	ie wrong numbe	er in the giver	sequence e
	loading operating system int				99, 121, 279, 59	14	
	(a) Bootstrap Loader	(b) CMOS				(c) 279	(d) 594
	(c) BIOS	(d) DMOS	١.,	(a) 33	(b) 121		
71.	Three persons A. B and C		81.	numbers.	e wrong numbe	er in the given	sequence o
	There are five persons between A and B and eight				5 20 27 40		
	persons between B and C. If there be three persons				5, 30, 37, 40	(a) 40	(d) 25
	ahead of C and 21 persons			(a) 37	(b) 30	(c) 40	(d) 23
	the minimum number of persons in the queue?		82.		nissing number		
	(a) 40 (b) 27	(c) 41 (d) 28			, 14, 17, 17, 22,		(4) 22
72.	A class of boys stands in a	single line; one boy is 19 th		(a) 27	(b) 27	(c) 20	(d) 22
	in order from both the ends. How many boys are there		83.		nissing number		
	in the class?				131, 261, ()	(.) 531	(4) 701
	(a) 39 (b) 37	(c) 27 (d) 38		(a) 523	(b) 613	(c) 521	(d) 721
73.	517, 235, 639, 841, 792 What will be the first digit of		84.		LETED is code		LUCI. Me
	the second highest number				N will be coded		NOI
	the 2 nd , 3 rd digits within ech			(a) RIDTC		(b) SIDTCE	
	(a) 7 (b) 8	(c) 9 (d) 2	I	(c) RIDTC	ENOI	(d) RIETCE	ION

85.	In a code language COM	MPUTER is written as		(a) Withhold	((b) Conceal			
	RETUPMOC. How is MACHINE written in the same			(c) Familiarise		(d) Risky			
	code		92. Synonym of AGGRAVATE						
	(a) DHFTCHS	(b) HGTIRDM		(a) Decline		(b) Acquire			
	(c) ENIHCAM	(d) HGRMSCH		(c) Excited		(d) Irritate			
86.	If COOL is coded as DQRI	P, then write the code for	93.	A remedy for all disea		•			
	HOT			(a) Medicine		(b) Panacea			
	(a) JQW	(b) IQW		(c) Medical	((d) Medica			
	(c) IQX	(d) IPW	94.	The mistake of placing	g somet	hing in the wrong period			
87.	Pointing to a girl in photograph. Amar said, "Her			of time:					
	mother's brother is the or	mother's brother is the only son of my mother's		(a) Misdate	((b) Anachronism			
	father." How the girl's mother	er related to Amar?		(c) Misplacement	((d) Prolepsis			
	(a) Mother	(b) Sister	95.	Find the most opposite	e meanii	ng of SUBVERSION			
	(c) Aunt	(d) Grandmother		(a) Destabilization		(b) Clarity			
88.	A is the son of B. C. B's sister has a son D and a			(c) Compliance	((d) Sanity			
	daughter E. F is the matern	al uncle of D. How is E	96.	Find the word just opp	osite to	PROVOKE			
	related to F?			(a) Insult		(b) Anger			
	(a) Sister	(b) Mother		(c) Encourage	((d) Soothe			
	(c) Cousin	(d) Niece	97.	Choose the grammatic	ally cor	rrect sentences out of the			
89.	The question given below has a set of three or four			given options					
	statements. Each set of statements is further divided			(a) He parked the car in the front of the bakery.					
	into three segments. Choose the alternative where the		(b) He parked an car in the front of the bakery.						
	third segment in the stat		(c) He park the car in the front of the bakery.						
		deducted using both the preceding two, but not just		_					
	from one of them.		98. Which word of the following means 'extremely or						
	Statement – I. All papers are	books.		unusually small '?					
	II. All bags are books.			(a) Webbed	((b) Diminutive			
	III. Some purses are bags.			(c) Awkward		(d) Farthest			
	Conclusions – I. Some papers are bags.		99.	What is the meaning o					
	II. Some books are papers. III. Some books are purses.			(a) Threshold		(b) Entrance			
	(a) Only I follows.		100	(c) Manner of Walking	_	(d) Speed			
	(b) Only II follows.		100). Fill in the blank	s with	the correct prepositions.			
	(c) Only I and II follows.					Kolkatanext			
	(d) Both I and II follows.			Saturday.					
90.	Study the information give	en below carefully and			b) for, f				
	answer the questions that follows	low?	_	(c) by, by	d) in, til	I			
	On a stage, D, N, A and P								
	below facing North.	are standing as described							
	1) N is 2.5 m to the west of A	۸.							
	2) K is 4 m to the right of A.								
	3) D is 6 m to the south of K								
	4) P is 9 m to the north of D.								
	If a boy walks from N. meets A followed by K. D and								
	then P, how many metres has he walked if he has								
	travelled the straight distance all through?								
	(a) 15m (b) 18m (c) 2	21.5m (d) 22.5m							
91.	Synonym of ACQUIANT	https://www.j	ımi	astudy.com					