ENTRANCE EXAMINATION - 2021 - 22

900031

SET - C

SSF JAMIA MILLIA ISLAMIA New Delhi

TOTEM DLX 20A

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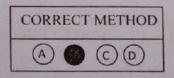
Signature of Invigilator

Time: 1 Hour 30 Minutes

Total Marks: 100

Instructions to Candidates

- Do not write your name or put any other mark of identification anywhere in the OMR Response Sheet. IF ANY MARK OF IDENTIFICATIONS IS DISCOVERED ANYWHERE IN OMR RESPONSE SHEET, the OMR sheet will be cancelled, and will not be evaluated.
- This Question Booklet contains the cover page and a total of 100 Multiple Choice Questions of 1 mark each.
- Space for rough work has been provided at the beginning and end. Available space on each page may also be used for rough work.
- There is negative marking in Multiple Choice Questions. For each wrong answer, 0.25 marks will be deducted.
- USE/POSSESSION OF ELECTRONIC GADGETS LIKE MOBILE PHONE, iPhone, iPad, pager ETC. is strictly PROHIBITED.
- 6. Candidate should check the serial order of questions at the beginning of the test. If any question is found missing in the serial order, it should be immediately brought to the notice of the Invigilator. No pages should be torn out from this question booklet.
- Answers must be marked in the OMR Response sheet which is provided separately. OMR Response sheet must be handed over to the invigilator before you leave the seat.
- The OMR Response sheet should not be folded or wrinkled. The folded or wrinkled OMR/Response
 Sheet will not be evaluated.
- Write your Roll Number in the appropriate space (above) and on the OMR Response Sheet. Any
 other details, if asked for, should be written only in the space provided.
- 10. There are four options to each question marked A, B, C and D. Select one of the most appropriate options and fill up the corresponding oval/circle in the OMR Response Sheet provided to you. The correct procedure for filling up the OMR Response Sheet is mentioned below.



- A ten-rupee coin is placed on a plain paper. How many coins of the same size can be placed around it so that each one touches the central and adjacent coins? (a) (c) SSF JAMIA MILLIA ISLAMIA **New Delhi** 2. The missing term in the sequence ADVENTURE, DVENTURE, DVENTUR,?...... VENTU DVENT (a) **VENTURE** (b) (c) **VENTUR** (d) **DVENTU**
- 3. Choose the ODD ONE OUT:
 - (a) Rice

(b) Maize

(c) jowar

- (d) Wheat
- 4. If DRIVER = 12, PEDESTRIAN = 20, ACCIDE NT = 16, then CAR = ?
 - (a) 3

(b) 6

(c) 8

5.	If you	u are facing north-east and mo	ve 10	m forward	i, turn left an	d move 7.5m
	then y	you are:				
	(a)	North of your initial position				
	(b)	South of your initial position			2	
	(c)	East of your initial position				
	(d)	West of your initial position				
	170	Material Substitution				
6.	A clo	ock is so placed that at 12 noon	its mir	nute hand	point towards	north-east. Ir
	which	h direction does its hour hand po	oint at	1:30 p.m.?		
	(a)	North	(b)	South	1	
	(c)	East	(d)	West		
7.	A fro	og tries to come out of a dried	well 9	00m deep	with slippery	walls. Every
	time	the frog jumps up 60 cm, he sl	ides ba	ick 30 cm.	How many ju	mps the frog
	will l	have to take to come out of the v	vell?			1400
	(a)	29	(b)	30	10 30 To 30	131
	(c)	25	(d)	26	34 30	
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8.	In ho	ow many ways a cricketer can his	t a cent	ury if he h	its only fours a	and sixes?
	(a)	24	(b)	12		
	(c)	9	(d)	8		
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9.	How	many times are the hands of a c	lock at	right angles in a day?
	(a)	24	(b)	48 1
	(c)	22	(d)	44
10.	Find	the missing term in the series: 2	, 15, 4,	12, 6, 7, 3.?, 10.?
	(a)	8, 8	(b)	8, 0
	(c)	3, 8	(d)	4, 8
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11.	A is	B's sister, C is B's mother, D is	s C's fa	ather, E is D's mother. Then how is A
	relat	ed to D?	2	
	(a)	Grandmother	(b)	Grandmother
	(c)	Daughter	(d)	Grand daughter
12.	Find 5, 18	I the wrong number in the series 3, 34, 54, 79, 110, 158	given	below:
	(a)	34	(b)	54
	(c)	18	(d)	158
13.	Fino	d the wrong number in the series	s given	below:

5, 6, 14, 45, 184, 920, 5556

(a) 5

(b) 6

(c) 920

14.	Win	is related to Competition	on in the sa	ame wa	ay as invention is	related to:
	(a)	Product		(b)	Discovery	
	(c)	Trial		(d)	Laboratory	
15.	Point	ing towards a girl in	the pictur	e, Sar	ita said."She is th	ne mother of Neha
	whos	e father is my son". He	ow is Sarit	a relate	ed to the girl in the	picture?
	(a)	Mother		(b)	Mother-in-law	
	(c)	Aunt		(d)	Sister	
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16.	If 100	cats kill 100 mice in	100 days,	then 4	cats would kill 4	mice in how many
	days?	sendgood inv				
	(a)	lday		(b)	4 days	
	(c)	40 days		(d)	100 days	
						160 14
17.	Two	pipes A and B can fi	ll a tank in	n 12mi	nutes and 16minu	tes respectively. If
	both 1	pipes are opened toge	ther, then	after ho	ow much time B s	hould be closed so
	that th	ne tank gets filled in 9	minutes.		jat -	200
	(a)	2 minutes		(b)	4 minutes	12 16 12 18
	(c)	8 minutes		(d)	12 minutes	
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18.	If Mathematics: Logic :: Science	e:?	
	(a) Facts	(b)	Scientist
	(c) Experiment	(d)	Laboratory
19.	Five children take part in a tour	nament. E	ach one has to play every other one.
	How many games must they play	?	
	(a) 8	(b)	10
	(c) 24 5C1	(d)	30
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20.	A man has a certain number of si	mall boxes	to pack into parcels. If he packs 3, 4,
	5 or 6 in a parcel, he is left with	one over	if he packs 7 in a parcel none is left
	over. What is the number of boxe	es, he may	have to pack?
	(a) 106	(b)	301,
	(c) 309	(d)	400
21.	Choose the most appropriate opti	ions to fill	in the blanks as follows.
	Every human being, after the firs	st few days	of his life, is a product of two factors:
	on the one hand, there is his	endo	wment; and on the other hand, there is
	the effect of environment, includi	ing	
	(a) constitutional; weather	(b)	Congenital; education
	(c) Personal; climate	(d)	Economic; learning

22.	Choo	ose the most appropriate options to fill in the blanks as follows.
	The	of public awareness about the disease has led to it
	wide	spread
	(a)	Dearth, incidence (b) Paucity, occurrence
	(c)	Lack, happening (d) Scarcity, frequency
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23.	In th	e question below, a word 'File' has been used in sentences in four differen
	ways	s. Choose the option corresponding to the sentence in which the usage of the
	word	l is incorrect or inappropriate:
	File	
	(a)	You will find the paper in the file under the chair.
	(b)	I need to file an insurance claim.
	(c)	The cadets were marching in a single file.
	(d)	When the parade was on, a soldier broke the file.
	136 4	

24.	In the following sentence, parts of the sentence are left blank. Beneath each					
	sentence, four different ways of completing the sentence are indicated. Choose					
	the best	alternative:				
	Senten	ce: Police	notorious	gangster after	relentless	chase that
		for 3 weeks.				
	(a) A	Arrest, reigned	(b)	nabbed, laste	d	
	(c) S	Snatched, persist	(d)	contempt, en	dured	
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25.	In the	following sentence, pa	arts of the	sentence are le	ft blank. B	eneath each
	senten	ce, four different ways	of completi	ing the sentence	e are indica	ted. Choose
	the bes	at alternative:				
	Senten	ce: An interview is a	good chanc		how candid	ates
	difficu	lt situations.				
	(a)	Discuss, improved	(b)	Assess, addr	ressed	
	(c)	Analyze, tackling	(d)	Evaluate, ap	proach	

26.	In the question below, a word 'Run' has been used in sentences in four different				
	ways. Choose the option corresponding to the sentence in which the usage of the				
	word is incorrect or inappropriate:				
 I must run fast to catch up with him. Our team scored a goal against the run of play. 					
	IV. The newly released book is enjoying a popular run.				
	(a)	I and II only	(b)	II and IV Only	
	(c)	III only	(d)	IV Only	
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27.	The v	word 'Concurrence' similar in m	neaning	g to the following words except:	
	(a)	Agreement	(b)	Accord	
	(c)	Consensus	(d)	Harmony	
28.	Selec	t the word from the choices give	en bel	ow that is most similar in meaning to	
	the w	ord 'SOLITUDE'.			
	(a)	Musical Composition	(b)	Aloneness	
	(c)	True statement	(d)	Single-mindedness	
		110			

- 29. Which is the antonym of the word 'EXODUS' Which is the antonym of the word 'EXODUS' Which is the antonym of the word 'EXODUS' who was a second of the word of the word 'EXODUS' who was a second of the word of the word 'EXODUS' who was a second of the word '
 - (a) Influx

(b) Return

(c) Home Coming

- (d) Restoration
- 30. Choose the alternative from the following options, which can be substituted for the given words/sentence.

'A style in which a writer makes display of his knowledge'

(a) Ornate

(b) Pedantic

(c) Artificial

- (d) Showy
- 31. The set $(A \cap B')' \cup (B \cap C)$ is equal to



(a) $(A' \cup B \cup C)$

(b) (A' ∪ B)

(c) (A' U c')

(d) $(A' \cap B)$

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- 32. Let F₁ be the set of parallelograms, F₂ the set of rectangles, F₃ the set of rhombuses, F₄ the set of squares and F₅ the set of trapeziums in a plane. Then F₁ may be equal to:
 - (a) $(F_2 \cap F_3)$

(b) $(F_3 \cap F_4)$

(c) (F₂ U F₅)

(d) $(F_2 \cup F_3 \cup F_4 \cup F_1)$

- 33. If $[x^2]-5[x]+6=0$, where [.] denote the greatest integer function, then
 - (a) $x \in [3, 4]$

(b) $x \in (2, 3]$

(c) $x \in (2,3)$

(d) $x \in (2, 4)$

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- 34. 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) $\sin 1^{\circ} = \prod /18^{\circ} \sin 1$
- 35. The value of $\tan 3A \tan 2A \tan A$ is equal to
 - (a) $\tan 3A \tan 2A \tan A$
 - (b) $-\tan 3A \tan 2A \tan A$
 - (c) $\tan A \tan 2A \tan 2A \tan 3A \tan 3A \tan A$
 - (d) None of these
- 36. If $\left(\frac{1+i}{1-i}\right)^x = 1$, then
 - (a) x = 2n + 1, where $n \in \mathbb{N}$
 - (b) x = 4n, where $n \in \mathbb{N}$
 - (c) x = 2n, where $n \in \mathbb{N}$
 - (d) x = 4n + 1, where $n \in \mathbb{N}$
- 37. The complex number z which satisfies the condition $\left|\frac{i+z}{i-z}\right| = 1$ lies on
 - (a) Circle $x^2 + y^2 = 1$

(b) The x-axis

(c) The y-axis

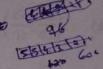
(d) The line x + y = 1

- 38. A five-digit number divisible by 3 is to be formed using the numbers 0,1,2,3,4 and 5 without repetitions. The total number of ways this can be done is:
 - (a) 216

(b) 600

(c) 240

(d) 3125



- 39. Given 5 different green dyes, 4 different blue dyes and 3 different red dyes, the number of combinations of dyes which can be chosen taking at least 1 green and 1 blue dye is
 - (a) 3600

(b) 3720

(c) 3800

(d) 3500

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- 40. The total number of terms in the expansion of $(x + a)^{100} + (x a)^{100}$ after simplification is
 - (a) 50

(b) 202

(c) 51

- (d) 62
- 41. The minimum value of $4^x + 4^{1-x}$, $x \in \mathbb{R}$, is
 - (a) 2

(b) 4

(c) 1

42. The coordinates of the foot of perpendiculars from the point (2, 3) on the line

$$y = 3x + 4$$
 is given by

(a) $\left(\frac{37}{10}, \frac{-1}{10}\right)$

- (b) $\left(\frac{-1}{10}, \frac{37}{10}\right)$

(c) $\left(\frac{10}{37}, -10\right)$

- Equations of diagonals of the square formed by the lines x = 0, y = 0, x = 1 and 43. v = 1 are



- (a) y = x, y + x = 1(b) y = x, y + x = 2(c) 2y = x, $y + x = \frac{1}{3}$ (d) y = 2x, y + 2x = 1(c) 2y = x, $y + x = \frac{1}{3}$
- The equation of a circle with origin as centre and passing through the vertices of 44. an equilateral triangle whose median is of length 3a is:
 - (a) $x^2 + y^2 = 9a^2$

(c) $x^2 + y^2 = 4a^2$

- (d) $x^2 + y^2 = a^2$
- The locus of a point for which y = 0, z = 0 is: 45.



- Equation of X-axis (a)
- (b) Equation of Y-axis
- Equation of Z-axis (c)
- (d) None

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- In an A.P. the p^{th} term is q and the $(p+q)^{th}$ term is 0. Then the q^{th} term is 46.
 - (a)

(b)

(c) p+q

(d) p-q

47.	Let f	$(x) = x - [x]$; $x \in \mathbb{R}$, [] denotes the	he grea	atest integer function, then $\int \left(\frac{1}{2}\right)$ is:
	(a)	3 2	(b)	I same but one one one paints.
	(c)	0	(d)	-1
48.	The	standard deviation of some ten	peratu	are data in °C is 5. If the data were
	conv	erted into °F, the variance would	d be	
	(a)	81	(b)	57
	(c)	36	(d)	25
49.	Thre	e numbers are chosen from 1 t	o 20.	Find the probability that they are not
	cons	ecutive		
	(a)	186 190	(b)	187 190
	(c)	188 190	(d)	18 20 3C
50.	The	probability that at least one of	the ev	ens A and B occurs is 0.6. If A and 8
	occi	urs simultaneously with probabil	ity 0.2	, then, $P(\bar{A}) + P(\bar{B})$ is
	(a)	0.4	(b)	0.8
	(c)	1.2	(d)	1.6
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51. The maximum number of equivalence relations on the set $A = \{1, 2, 3\}$ are

- (a) 1 (b) 2
- (d) 5 (c) 3

- 52. If the set A contains 5 elements and the set B contains 6 elements, then the number of one-one and onto mappings from A to B is
 - (a) 720

(b) 120

(c) 0

- (d) none
- 53. If $\cos^{-1}\alpha + \cos^{-1}\beta + \cos^{-1}\gamma = 3\pi$, then $\alpha((\beta + \gamma) + \beta(\gamma + \alpha) + \gamma(\alpha + \beta))$ equals
 - (a) 0

(b)

(c) 6

- (d) 12
- 54. If A is a square matrix such that $A^2 = I$, then $(A I)^3 + (A I)^3 7A$ is equal to
 - (a) A

(b) I-A

(c) I+A

(d) 3A

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- 55. Let $f(t) = \begin{vmatrix} \cos t & t & 1 \\ 2\sin t & t & 2t \\ \sin t & t & t \end{vmatrix}$, then $\lim_{t\to 0} \frac{f(t)}{t^2}$ is equal to
 - (a) 0
- (b) -1
- (c) 2

- (d) 3
- 56. If x, y, z are all different from zero and $\begin{vmatrix} 1+x & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1+z \end{vmatrix} = 0$, then value of

$$x^{-1} + y^{-1} + z^{-1}$$
 is

(a) xyz

(b) x⁻¹ y⁻¹ z⁻¹

(c) -x-y-z

(d) -1

- 57. If $f(x) = x^2 \sin \frac{1}{x}$, where $x \ne 0$, then the value of the function f at x=0, so that the function is continuous at x = 0, is
 - (a) 0

(b) -1

(c) 1

- (d) None
- 58. Maximum value of $\left(\frac{1}{x}\right)^x$ is
 - (a) e

(b) e^e

(c) $e^{\frac{1}{e}}$

(d) $\left(\frac{1}{e}\right)^{\frac{1}{e}}$

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- 59. $\int \frac{\cos 2x \cos 2\theta}{\cos x \cos \theta} dx$ equal to:
 - (a) $2(\sin x + x \cos \theta) + C$
 - (b) $2(\sin x x \cos \theta) + C$
 - (c) $2(\sin x + 2x \cos \theta) + C$
 - (d) $2(\sin x 2x \cos \theta) + C$
- 60. The degree of the differential equation $\left[1 + \left(\frac{dy}{dx}\right)^2\right]^{\frac{3}{2}} = \frac{d^2y}{dx^2}$ is:
 - (a) 4

(b) $\frac{3}{2}$

(c) Not defined

61. The solution of the differential equation $\frac{dy}{dx} = e^{x-y} + x^2 e^{-y}$ is:

(a)
$$y = e^{x-y} - x^2 e^{-y} + c$$

(b)
$$e^y - e^x = \frac{x^3}{3} + c$$

(c)
$$e^x + e^y = \frac{x^3}{3} + c$$

(c)
$$e^x + e^y = \frac{x^3}{3} + c$$
 (d) $e^x - e^y = \frac{x^3}{3} + c$

For any vector \vec{a} , the value of $(\vec{a} \times \hat{i})^2 + (\vec{a} \times \hat{j})^2 + (\vec{a} \times \hat{k})^2$ is equal to 62.

(a)
$$\vec{a}^2$$

(b)
$$\overrightarrow{3a}^2$$

(c)
$$\overrightarrow{4a}^2$$

(d)
$$2\vec{a}^2$$

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Number of vectors of unit length perpendicular to the vectors $\vec{a} = 2\hat{i} + \hat{j} + 2\hat{k}$ 63. and $b = \hat{j} + \hat{k}$ is.

The reflection of the point (α, β, γ) in the xy-plane is: 64.

(a)
$$(\alpha,\beta,0)$$

(b)
$$(0,0,\gamma)$$

(c)
$$(-\alpha, -\beta, \gamma)$$

(d)
$$(\alpha,\beta,-\gamma)$$

- 65. The locus represented by xy + yz=0 is
 - (a) A pair of perpendicular lines
 - (b) A pair of parallel lines
 - (c) A pair of parallel planes
 - (d) A pair of perpendicular planes
- 66. Three persons A, B and C fire at a target in turn, starting with A. Their probabilities of hitting the target are 0.4, 0.3 and 0.2 respectively. The probability of two hits is:
 - (a) 0.024

(b) 0.188

(c) 0.336

(d) 0.452

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- 67. A and B are two students. Their chances of solving a problem correctly are $\frac{1}{3}$ and $\frac{1}{4}$, respectively. If the probability of their making a common error is $\frac{1}{20}$ and they obtain the same answer, then the probability of their answer to be correct is:
 - (a) $\frac{1}{12}$

(b) $\frac{1}{40}$

(c) $\frac{13}{120}$

(d) $\frac{10}{13}$

- 68. If $a_n = \alpha^n \beta^n$ and α, β are the roots of the equation $x^2 6x 2 = 0$, then find the value of $\frac{a_{10} 2a_8}{3a_9}$
 - (a) 2

(b) -2

(c) 3

- (d) -3
- 69. Let the quadratic equation $ax^2 + bx + c = 0$ where a, b, c are obtained by rolling the dice thrice. What is the probability that the equation has equal roots?
 - (a) $\frac{5}{216}$

(b) $\frac{1}{72}$

(c) $\frac{1}{36}$

- (d) $\frac{1}{216}$
- 70. Find the value of $I = \int_{-1}^{1} x^2 \cdot e^{[x^3]} dx$, where ([]] denotes the greatest integer function)
 - (a) $\frac{1}{3} \frac{1}{3e}$

(b) $\frac{1}{3} + \frac{1}{3e}$

(c) $\frac{1}{3e} - \frac{1}{2}$

(d) 2

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- 71. Find the number of points, where $f(x) = |2x + 1| -3 |x + 2| + |x^2 + x 2|$ is non differentiable at
 - (a) 2

(b) 3

(c) 4

- 72. Find the number of solutions of the equation $4(x-1) = \log_2(x-3)$
 - (a) 0

(b) 1

(c) 2

- (d) 4
- 73. Minimum value of $a^{a^x} + \frac{a}{a^{a^x}}$ (a > 0; a, $x \in \mathbb{R}$)
 - (a) 2√a

(b) √2a

(c) 2√2a

(d) $2\sqrt{2a}$

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- 74. If 'x' is a number divided by '4', leaves the remainder '3', then find the remainder if $(2020 + x)^{2022}$ is divided by '8'
 - (a) 1

(b) 2

(c) 3

- (d) 4
- 75. If $x^3 2x^2 + 2x 1 = 0$ has roots (α, β, γ) then find $(\alpha^{162} + \beta^{162} + \gamma^{162})$
 - (a) 1

(b) 2

(c) 3

- (d) 4
- 76. Find the area bounded by the curve y = |x-1| 2 with X-axis
 - (a) 1

(b) 2

(c) 3

- 77. If a triangle is inscribed in a circle of radius r, then which of the following triangle can have maximum area:
 - (a) Equilateral triangle with height $\frac{2r}{3}$
 - (b) Right angled triangle with side 2r, r
 - (c) Equilateral triangle with side $\sqrt{3r}$
 - (d) Isosceles triangle with base 2r
- 78. From the point A(3, 2), a line is drawn to any point on the circle $x^2 + y^2 = 1$. If locus of midpoint of this line segment is a circle, then its radius is
 - (a) $\frac{\sqrt{13}}{2}$

(b) $\frac{1}{2}$

(c) $\frac{\sqrt{11}}{2}$

- (d) $\frac{1}{4}$
- 79. If slope of common tangent to curves $4x^2 + 9y^2 = 36$ and $4x^2 + 4y^2 = 31$ is m, then m² is equal to:
 - (a) 3

(b) 6

(c) 9

(d) 5

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- 80. If A and B are matrices of same order, then (AB' -BA') is a
 - (a) Skew-symmetric matrix
 - (b) Null matrix
 - (c) Symmetric matrix
 - (d) Unit matrix

81.	Which of the	following statement s best	explains a	process?
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- (a) It is a program
- (b) It is a program in execution
- (c) It is an instance of a program in execution
- (d) It is a program that uses system calls

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82. Files that store data in the same format as used in the program are called.

(a) Binary files

(b) Source file

(c) Text files

(d) Core Files

83. Mach List- I and List - II and select correct group of matching.

List - I

List - II

1. DOS

P. Sun Microsystems

2. P4

Q. Microsoft Corporation

3. Java

R. IBM

4. PC

- S. Intel Corporation
- (a) (1, Q), (2, S), (3, P), (4, R)
- (b) (1, Q), (2, R), (3, S), (4, P)
- (c) (1, S), (2, P), (3, Q), (4, R)
- (d) (1, R), (2, P), (3, m, (4, S)

84.	Which of the following languages is case sensitive?			ensitive?
	(a)	FORTRAN	(b)	BASIC
	(c)	С	(d)	None
85.	Kern	el is:		
	(a)	Considered as the critical part	of OS	
	(b)	Th software which monitors th	e OS	
	(c)	The set of primitive functions u	ipon w	hich rest of the OS functions are bui
	(d)	None		
86.	If (12	$(23)_5 = (A3)_B$, then the number of	fpossil	ole values of A is:
	(a)	4	(b)	1
	(c)	3	(d)	2
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87.	The t	hree main components of a digit	al com	puter system are:
	(a)	Memory, 1/O, DMA	(b)	ALU, CPU, Memory
	(c)	Memory, CPU, 1/O	(d)	Control Circuits, ALU, Registers

88.	The F	Boolean expression AB + AB' +	A'C +	AC is unaffected by the value of the
	Boole	ean variable:		
	(a)	A	(b)	В
	(c)	C	(d)	none
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89.	The	method of communication in v	which	transmission takes place in both the
	direc	ction, but only in one direction at	a time	e is called:
	(a)	Simplex	(b)	Four wire circuit
	(c)	Full duplex	(d)	Half duplex
90.	The	Topology with the highest reliab	oility is	3:
	(a)	Bus Topology	(b)	Star Topology
	(c)	Ring Topology	(d)	Mesh Topology
91.	C is	s a:		
	(a)	High level language		
	(b)	Low level language		arrano for
	(c)	High Level language with son	me lov	v level features
	(d)	Low level language with som	ne high	level features
			25]	

92. Match List-I and List-II given below and select the correct answer from the given options.

List - I

List - II

1. Azim Premji

P. Microsoft

- 2. Narayana Murthy
- Q. Wipro

3. Bill Gates

R. Satyam

4. Ramalinga Raju

- S. Infosys
- (a) (1, S), (2. 01, (3, P), (4, R)
- (b) (1, Q), (2. S), (3, P), (4, R)
- (c) (1, P), (2, R), (3, S), (4, Q)
- (d) (1, S), (2. P), (3, Q), (4, R)
- 93. The minimum number of temporary variables needed to swap the contents of two variables is:
 - (a) 1

(b) 2

(c) 3

(d) 0

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- 94. Binary equivalent of decimal number (0.4375) 10 is:
 - (a) $(0.0111)_2$

(b) (0.101 1)₂

(c) $(0.1100)_2$

(d) $(0.1010)_2$

- 95. An important aspect in coding is: Readability (a) (b) To use as small memory space as possible (c) Productivity Brevity (d) C++ was originally developed by 96. Clocksin and Mellish (a) (b) Donald E. Knuth (c) Sir Richard Hadlee (d) Bjarne Stroustrup SSF JAMIA MILLIA ISLAMIA New Delhi Who created the first free e-mail service on the internet: 97. (b) Bill gates (a) B.W. Kernighan Sabeer Bhatia N. Karmakar (d) (c) In general, for a computer which of the following represents the memories in
- 98. increasing order of their capacities?
 - Register < RAM < Cache < Hard Disk (a)
 - RAM < Cache < Hard Disk < Register (b)
 - Register < Cache < RAM < Hard Disk (c)
 - Cache < RAM < Hard Disk < Register (d)

- 99. In IPv4, the length of an IP address is.
 - (a) 16 bits

(b) 32 bits

(c) 48 bits

(d) 64 bits

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- 100. Which Protocol is used to send messages from a mail client to a mail server?
 - (a) FTP

(b) IP

(c) SMTP

(d) TCP/IP