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SHIVAJI UNIVERSITY, KOLHAPUR

MCA (Science) Entrance Examination May -2023

	Sub. 9 and Date : Tuesday, 18-07-2023 ne : 01.00 p.m. to 02.30 p.m.	Code: 58729 Total Marks: 100
Ins	2) There is NO negations are Constitutions: 1) All questions are Constitutions are Constitution are	ive marking.
1)	Who has been crowned Miss Un	iverse India 2023?
	a) Divita Rai	b) Aishwarya Rai
	c) Madhuri Sharma	d) Rani Ramcharan
2)	Which country launched the wor	'ld's first nationwise 5G mobile network?
	a) Japan	b) Malaysia
	c) South Korea	d) China
3)	A billionth of a second is defined	d as a
	a) picoseconds	b) milliseconds
	c) microseconds	d) nanoseconds
4)	Kisan Credit Cards are issued to	
	a) all the categories of farmers	b) persons engaged in fisheries
	c) persons engaged in animal hu	sbandry d) all of these
5)	Which company has overtaken A	Apple as world's most valuable brand in 2023?
	a) Microsoft	b) Google
	c) Walmart	d) Amazon

6)	Which Artificial Intelligence Company launched 'Pi Chatbot'?		
	a) Tesla	b) Inflection Al Inc	
	c) OpenAI	d) DeepMind Technologies	
7)	Indian government collected Rs	crore GST in January 2023.	
	a) 1,55,922	b) 1,56,987	
	c) 1,58,562	d) 1,59,839	
8)	Who has released his new novel "Vic	tory City" on 7th Feb 2023?	
	a) Zafar Rushdie	b) Padma Lakshmi	
	c) Salman Rushdie	d) VS Naipaul	
9)	Which country is ranked number I in 2023?	ICC Men's Test and T20 Team Rankings	
	a) England	b) India	
	c) Australia	d) South Africa	
10)	Who to received Lata Deenanath Man	ngeshkar award on 24 April 2023?	
	a) Asha Bhosale	b) Bappi Lahiri	
	c) Usha Mangeshkar	d) Arjit Singh	
11)	How many different ten letter words of 'STATISTICS' if repetition is not allo	can be formed using the letters of the word wed?	
	a) 25200	b) 75600	
	c) 50400	d) 100800	
12)	At present, the ratio between the age Jegan's age will be 28 years. What is	s of Jegan and Bala is 4:5. After 8 years, the age of Bala at present?	
	a) 20 years	b) 25 years	
	e) 30 years	d) 35 years	

13) Find the missing number:

2	5	6	28
4	9	9	77
3	7	6	?

σ	110
a)	40

b) 38

d) 35

14) How many 8's are present in the following sequence of numbers which are exactly divisible by both its preceding and following numbers ?

3 8 6 8 8 7 6 8 3 4 8 2 5 6 2 8 2 4 8 6 3 7 4 8 4 5 8 4

a) 5

b) 6

c) 4

d) less than 4

15) If "GREEN" is given number code as 49, what is the difference between the number codes of "VIOLET" and "PINK" ?

a) 55

b) 45

c) 33

d) 60

16) The labeled price of a table is Rs. 7,500. The shopkeeper sold it by giving 5% discount on the labeled price and earned a profit of 15%. What approximately is the cost price of the table?

a) Rs. 5758

b) Rs. 6195

c) Rs. 6425

d) Rs. 7200

17) If 'Pink' is called 'Orange', 'Orange' is called 'Blue', 'Blue' is called 'Red', 'Red' is called 'Green', 'Green' is called 'Black' and 'Black' is called 'white', what would be the color of human blood?

a) Orange

b) Black

c) Red

d) Green

18)	If "+" implies "subtract", "*" implies "division", "" implies "addition", "" implies "multiply", 5-3/6*3+4=?		
	a) 6	b) 7	
	c) 8	d) 9	
19)	In a span of 24 hours, how many time exactly in opposite directions?	nes would the two hands of a clock point	
	a) 10	b) 11	
	c) 22	d) 24	
20)	How many consonants are present be sequence of English alphabet?	between the first and fourth vowel in the	
	a) 13	b) 12	
	c) 11	d) 10	
21)	Choose the correct alternative having of (::) the given pair:	the same relation as the words on one side	
	Confirmed: Inveterate :: Financial	:?	
	a) Economic	b) Incredible	
	c) Bankrupt	d) Knot	
22)) Find out the ODD one from the given options:		
	a) Rebuke	b) Admonish	
	c) Reprimand	d) Commend	
23)	What number should come next in th	e series: 4, 7, 12, 19, 28	
	a) 49	b) 36	
	c) 30	d) 39	

24)	What should con	ne next in tl	he series:	JAK, KBI	L, LCM, N	MDN, ?		
	a) NEO			b) MEN				
	c) OEN			d) NEM				
25)	If South-East be West become?	ecomes Nor	th, North-	East beco	omes West	and so o	on. What	will
	a) North-West			b) North	-East			
	c) South-East			d) South	-West			
26)	In the following follow a relation (?) to have the s	nship. Whic	h Answe i	r figure sl	nould repla	_	•	
		Question I	Figures			ė:		
					?	1 52		
		Answer Fi	igures					
		(1)	(2)	(3)	(4)			
	a) 1			b) 2				
	c) 3			d) 4				
27)	Sumptuous mea	ns						
	a) Delirious			b) Gorge	eous			
	c) Perilous			d) Luxur	rious			
28)	Sound of apes is	s called						
	a) Clang			b) Gibbe	r			
	c) Moan			d) Bray				

29)	A person who is unable to pay debts		
	a) Bankrupt	b) Indebted	
	c) Impoverished	d) Insolvent	
30)	Despite the of the storm, th	e construction workers continued to work.	
	a) magnitude	b) duration	
	c) intensity	d) frequency	
31)	The value of a motor depreciates at the 3 years ago. If its present value is Rs.	e rate of 10% every year. It was purchased 5832, its purchase price was:	
	a) 10000	b) 8000	
	c) 12000	d) 8500	
32)	A person incurs a loss of 5% by sell should he sell to earn 5% profit.	ling a watch for Rs. 1140. At what price	
	a) Rs. 1200	b) Rs. 1230	
	c) Rs. 1260	d) Rs. 1290	
33)	_	terest received from two different sources e difference between their rates of interest	
	a) 0.1%	b) 0.2%	
	c) 0.3%	d) 0.4%	
34)	A sum of money placed at compound many years will it amount to 8 times?	l interest doubles itself in 4 years. In how	
	a) 6 years	b) 10 years	
	c) 12 years	d) 8 years	

35)) In what time an athlete can cover a distance of 500 m if he runs at a speed of 30 kmph?	
	a) 50 seconds	b) 55 seconds
	c) 72 seconds	d) 80 seconds
36)	A train 800 m long is running at a spe minute, then the length of the bridge	eed of 78 km/hr. If it crosses a bridge in 1 is:
	a) 540 m	b) 130 m
	c) 500 m	d) 260 m
37)	The speed of a boat in still water is 15. The distance travelled downstream in	5 km/hr and the rate of current is 3 km/hr. 12 minutes is:
	a) 1.2 km	b) 1.8 km
	c) 2.4 km	d) 3.6 km
38)	In a kilometre race, A beats B by 200	metres or 25 seconds. Speed of B is:
	a) 8 m/s	b) 10 m/s
	c) 15 m/s	d) 20 m/s
39)	Anil alone can complete a work in 10 in 15 days. In how many days can the	days while Bikash alone can complete it by together complete the same work?
	a) 4 days	b) 5 days
	c) 6 days	d) 8 days
40)	Two pipes A and B can fill a tank in 2 pipes are opened together, the tank w	0 and 30 minutes respectively. If both the ill be filled in:
	a) 10 min	b) 12 min.
	c) 14 min	d) 16 min

41)	In a class of 10 students, the average marks obtained by them is 30. The average marks obtained by the first six students is 20, and the last five is 42. The marks obtained by the sixth student is:		
	a) 35	b) 27	
	c) 30	d) 40	
42)	An amount of Rs.6240 is divided am Find the share of C?	ong A, B and C in the ratio 1/2: 1/3: 1/4.	
	a) Rs. 1280	b) Rs. 1380	
	c) Rs. 1400	d) Rs. 1440	
43)		ilk. He adds water and sells the mixture at it of 37.5%. Find the ratio of the water to	
	a) 1:15	b) 1:20	
	c) 1:12	d) 1:10	
44)	Amit is younger than Balbeer by 8 years age of Amit(in years).	ars. If the ratio of their ages is 3:5, find the	
	a) 10	b) 12	
	c) 14	d) 16	
45)	The least number which when divide is:	d by 12, 27 and 35 leaves 6 as remainder,	
	a) 3576	b) 7164	
	c) 7146	d) 4786	
46)	In how many ways 4 persons can be	seated on 4 chairs?	
	a) 20	b) 24	
	c) 26	d) 120	

47)	In how many different ways can the letters of the word COMPUTER be arranged in such a way that vowels occupy only odd positions?	
	a) 1440	b) 1400
	c) 2800	d) 5760
48)		iscount that a merchant can offer on her ing at no profit or loss, if she had initially
	a) 50%	b) 20%
	c) 25%	d) 33.33%
49)	-	s. Bikram can do it in 16 days. Atul started should Bikram join him, so that the work
	a) 2 days	b) 3 days
	c) 4 days	d) 5 days
50) Mother's age is 3 times more than her daughter's age. After 5 years, she wo 3 times of her daughter's age, then further after 5 years, what is the ratio of mother and daughter?		
	a) 5:2	b) 7:3
	c) 7:5	d) 7:4
51)	I think he took the criticism	heart?
	a) to	b) in
	c) about	d) of
52)	They hate it when their football team	
	a) loses	b) looses
	c) lost	d) losing

53)	53) Even if she them, they wouldn't have come.			
	a) asked	b) had asked		
	c) would ask	d) would have asked		
54)	Yesterday she got a call from her of whole story.	ld friend, and the friend her the		
	a) tell	b) tells		
	c) told	d) has been telling		
55)	The number of friends and family men	mbers at the party amazing.		
	a) was	b) were		
	c) had	d) have had		
56)	They have all been friends	their first match as a team.		
	a) since	b) for		
	c) from	d) during		
57)	She took lessons how to	swim.		
	a) learn	b) for learning		
	c) to learn	d) learning		
58)	We are planningout to din	ner tonight.		
	a) taking our guests	b) guests to take		
	c) guests taking	d) to take our guests		
59)	For good health, shebed	earlier.		
	a) should go	b) should go to		
	c) should goes	d) should goes to		

60)	60) It is our problem, not		
	a) their	b) theirs	
	c) there	d) there's	
61)	As there were no buses, she	home last night	
	a) has to walk	b) has to walked	
	c) had to walk	d) had to walked	
62) I saw a of cows in the field.		eld.	
	a) group	b) herd	
	c) swarm	d) flock	
63) Rajeev failed in the examination because none of his answers were. the questions asked.		ause none of his answers were to	
	a) allusive	b) revealing	
	c) pertinent	d) referential	
64)	Man who has committed such an punishment.	crime must get the most severe	
	a) injurious	b) uncharitable	
	c) unworthy	d) abominable	
65) This is a good for a picnic.			
	a) plot	b) spot	
	c) scene	d) landscape	
66)	Ram the prince of Ayodhya	his siblings.	
	a) adorned	b) adored	
	c) vitiated	d) endangered	

0/)	A wise person is one who learns from	nis	
	a) errors	b) mistakes	
	c) falsities	d) lies	
68)	I wonder whether I ev	er see him again.	
	a) shall	b) will	
	c) should	d) would	
69)	The dog has been by the	car.	
	a) run out	b) run over	
	c) run into	d) run for	
70)	you apologize I shall punish you.		
	a) until	b) unless	
	c) till	d) None of these	
71)	The function f: $A \rightarrow B$ defined by $f(x)=4x+7$, $x \in R$ is		
	a) one-one	b) many-one	
	c) odd	d) even	
72)	The value of sin (2tan-1 (0.75)) is equal	al to	
	a) 0.75	b) 1.5	
	c) 0.96	d) sin 1.5	
73)	If a matrix A is both symmetric and sl	xew-symmetric, then	
	a) A is a diagonal matrix	b) A is a zero matrix	
	c) A is a scalar matrix	d) A is a square matrix	

74)	The area of a triangle with vertices (-3, 0), (3, 0) and (0, k) is 9 sq. units. The value of k will be	
	a) 9	b) 3
	c) -9	d) 6
75)	Using determinants, find the equation and (3, 6).	ion of the line joining the points (1, 2)
	a) y = 2x	b) x-3y
	c) y=x	d) 4x-y=5
76)	If for the non-singular matrix A, $A^2 =$	1, then A ⁻¹ is
	a) A	b) I
	c) 0	d) None of these
77)	If $4x+3y+6z = 25$, $x+5y+7z = 13$, $2x+$	-9y+z=1, then z=
	a) 1	b) 3
	c) -2	d) 2
78)	If $y = ax2+b$, then dy/dx at $x=2$ is eq	ual to
	a) 4a	b) 3a
	c) 2a	d) None of these
79)	Evaluate: $\int_{1}^{2} \frac{dx}{x^{2}}$	
	a) 1/2	b) 1
	c) 2	d) -1
80)	Area bounded by the curve $y^2 = 16x$ a	nd line $y = mx$ is $2/3$ then m is equal to
	a) 3	b) 4
	c) 1	d) 2

81)	Find the equation of plane passing through the points $P(1, 1, 1)$, $Q(3, -1, 2)$, $R(-3, 5, -4)$.		
	a) $x+2y = 0$	b) $x-y = 2$	
	c) $-x+2y = 2$	d) x + y = 2	
82)	82) 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	
83) If $P(A)=0.4$, $P(b)=0.8$ and $P(BIA)=0.6$, then $P(A \cup B)$ equal to			
	a) 0.24	b) 0.3	
	c) 0.48	d) 0.96	
84)	The number of elements in a null set i	S	
	a) zero	b) one	
	c) two	d) infinite	
85)	85) If a set A has 3 elements then find the number of elements in power set of set A		
	a) 1	b) 2	
	c) 8	d) 27	
86) If set A= {1,2,3,4) and B (3,4,5,6). Find B-A.			
	a) {1,2,3,4,5,6)	b) (3,4)	
	c) {1,2}	d) {5,6}	
87)	87) The finite set can have number of elements.		
	a) only zero	b) only one	
	c) at least one	d) zero or more but not infinite	
	,	,	

88)	There are 10 true-false questions in an examination. Then these questions can be answered in		
	a)100 ways	b) 20 ways	
	c) 512 ways	d) 1024 ways	
89) The third term of a geometric expression is 4. The product of the first five te is			
	a) 4 ³	b) 4 ⁵	
	c) 4 ⁴	d) none of these	
90)	90) The sum of AP 2,5,8, up to 50 terms is		
	a) 3557	b) 3775	
	c) 3757	d) 3575	
91) The perpendicular distance from the point (3,-4) to the line 3x-4y+ 100 is			
	a) 7	b) 8	
	c) 9	d)10	
92)	92) In an ellipse, the distance between its foci is 6 and its minor axis is 8 then i eccentricity is		
	a) 4/5	b) 3/5	
	c) 5/3	d) 1/2	
93) The number of tangents that can be drawn from $(1, 2)$ to $x^2+y^2=5$ is			
	a) 0	b) 1	
	c) 2	d) more than 2	
94)	If Mean Median Mode, then it is		
	a) symmetric distribution	b) asymmetric distribution	
	c) both symmetric distribution and asymmetric distribution d) none of the		

95)	The sum of 10 items is 12 and the sum of their squares is 18. The standard deviation is		
	a) 1/5	b) 2/5	
	c) 3/5	d) 4/5	
96)	The first computer was programmed	using	
	a) assembly language	b) machine language	
	c) spaghetti code	d) source code	
97).	97) An email account includes a storage area, often called		
	a) mailbox	b) hyperlink	
	c) IP address	d) none of these	
98)	The unit MIPS is used to measure the	e speed of a	
	a) disk drive	b) tape drive	
	c) printer	d) processor	
99)	Firewall is used in PC for	••	
	a) security	b) authentication	
	c) data transmission	d) none of these	
100)	00) What is the name of first super computer of India?		
	a) Saga 220	b) PARAM 8000	
	c) ENIAC	d) PARAM 6000	