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Total No. of Pages: 24

M. Sc. Entrance Examination, 2024 COMPUTER SCIENCE

Sub. Code: 58712

Day and Date: Monday, 29-07-2024 Total Marks: 100

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Time: 04.30 p.m. to 06.00 p.m.

Instructions:

1) All questions are compulsory.

- 2) Each question carries 1 mark.
- 3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
- 4) Follow the instructions given on OMR sheet.
- 5) Rough work shall be done on the sheet provided at the end of question paper.
- 1. The theme of "World Population Day 2024" is
 - a) To Leave No One Behind, Count Everyone
 - b) Unleashing the power of gender equality: Uplifting the voices of women and girls to unlock our world's infinite possibilities
 - c) The impact of the Covid-19 pandemic on fertility
 - d) A world of 8 billion: Towards a resilient future for all Harnessing opportunities and ensuring rights and choices for all

2.	In which city, India is hosting the UNESCO World Heritage Committee	
	mecting for the first time?	
	a) Mumbai	b) Bengaluru
	c) New Delhi	d) Hyderabad
3.	Dengue (break-bone fever) is	transmitted by which type of mosquitoes?
	a) Anopheles mosquitoes	
	b) Aedes mosquitoes	
	c) Culex mosquitoes	
	d) Culiseta mosquitoes	
4.	is first temporary ve	enue to have ever been used during an ICC
	T20 World Cup in 2024.	
	a) Trinidad: Brian Lara Stadiu	m
	b) Dallas: Grand Prairie Stadiu	ım
	c) Barbados: Kensington Oval	
	d) New York: Nassau County	International Cricket Stadium
5.	Which state government has rec	cently decided to ban the sale of high-caffeine
	energy drinks near schools?	
	a) Maharashtra	b) Uttar Pradesh
	c) Rajasthan	d) Bihar

6. V	6. Which space organization recently developed Computational Fluid Dynamics		
	(CFD) software named 'PraVaHa'?		
	a) ESA	b) JAXA	
	c) ISRO	d) CNSA	
7. V	What is "Rabbit RI"?		
	a) New species of Rabbit	b) Al Device	
	c) Galaxy	d) Exoplanet	
8	airport recently became	the first in the country to introduce a self-	
	service baggage drop system.		
	a) Rajiv Gandhi International A	Airport, Hyderabad	
	b) Sardar Vallabhbhai Patel Int	ternational Airport, Ahmedabad	
	c) Indira Gandhi International	Airport, New Delhi	
	d) Netaji Subhash Chandra Bo	se International Airport, Kolkata	
9	Shigmo festival is celebrated in	n which state?	
	a) Karnataka	b) Madhya Pradesh	
	c) Odisha	d) Goa	
10. Nhava Sheva Port is located in state.			
	a) Maharashtra	b) Gujarat	
	c) Kerala	d) Tamil Nadu	

11.	Which Indian has won the 2023	Ram	on Magsaysay award'?
	a) Ravi Kannan	b) G	autam Adani
	c) Ghazal Alagh	d) K	ailash Vidyarthi
12.	Who wrote the book "Origin of	Spec	ies"?
	a) Charles Dickens		
	b) Shakespeare		
	c) Charles Darwin		
	d) Samuel Taylor Coleridge		
13.	Which of the following rights is	s a po	litical right?
	a) Right to Live		
	b) Right to Education		
	c) Right to Freedom of Expres	sion	
	d) Right to Vote		
14.	14. Purple Revolution is associated with which one of the following?		
	a) Lavender	b) S	unflower
	c) Honey	d) C	otton
15. The Rapid Action Force (RAF) is a specialized wing of			
	a) Indian Army		b) Indian Navy
	c) Central Reserve Police Forc	e	d) Assam Rifles

16.	16. Which word does NOT belong with the others?		
	a) Circumference	b) Area	
	c) Variable	d) Quadrilateral	
17.	How many times do the hands	of a clock coincide in 24 hours?	
	a) 22	b) 24	
	c) 26	d) 28	
18.	In a maths class Riki divides 60	chalk sticks by half and adds fifteen. What	
	answer does she show the Class	ss?	
	a) 129 chalk sticks		
	b) 130 chalk sticks		
	c) 135 chalk sticks		
	d) 145 chalk sticks		
19. Pen is to poet as needle is to			
	a) Tailor	b) Thread	
	c) Sewing	d) Button	
20. The day before yesterday was Saturday. What day will it be the day after			
	tomorrow?		
	a) Tuesday	b) Wednesday	
	c) Thursday	d) Friday	

21. If in a certain language, NOID	OA is coded as OPJEB, how is DELHI coded	
in that language?		
a) CDKGH	b) EFMIJ	
c) FGNJK	d) IHLED	
22. Statements: A school has 500	students. 50% of them are boys.	
Conclusions:		
I) The school has 250 gi	irls.	
II) Boys are the majority	in the school.	
a) Only conclusion I follows.		
b) Only conclusion II follows	S.	
c) Both I and II follows.		
d) None of above		
23. CUP: LIP:: BIRD:?		
a) GRASS	b) FOREST	
c) BEAK	d) BUSH	
24. Pointing to a man, Rohan said, "His only brother is the father of my daughter's		
father." How is the Rohan rel	ated to the man?	
a) Father	b) Grandson	
c) Uncle	d) Nephew	

25.	25. In a certain code language 'RISE' is written as '8419', and 'MEAL' is written		
	as 5927". How is 'RAIL written in that code?		
	a) 8429	b) 8124	
	c) 8247	d) 2948	
	For questions Q.26 and Q.27: Refer to the alphanumeric series give		
	below and answer the following questions:		
	A*591N & E@ #U1&		
26.	26. How many vowels in the above arrangement are preceded by a symbol?		
	a) One	b) Two	
	c) Three	d) None	
27.	Which is the second element to	the left of the sixth element from the right?	
	a) &	b) @	
	c) N	d) E	
28.	Pointing to a photograph of a be	oy Mr.Ram said, "He is the son of the only	
	son of my mother." How is Mr	Ram related to that boy?	
	a) Brother	b) Uncle	
	c) Cousin	d) Father	

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4).	Dia			LO	

	1. All boys are honest.	II. Sachin is a boy.		
	Conclusions:			
	1. Sachin is a boy.	II. All honest persons are boys.		
	a) If only conclusion I follows			
	b) If only conclusion II follows	S		
	c) If either I or II follows			
	d) If neither I nor II follows			
30.	While sitting in a park, you obs	serve that a smart young man comes to the		
place on a scooter, leaves it there and goes away with someone				
	motorbike. You would:			
	a) Inform the police at the near	by booth.		
	b) Chase the person.			
	c) Remain engaged in your enj	oyment.		
	d) Call back the person.			
31.	War : Death : : Smoke : ?			
	a) Cigarette	b) Fire		
	c) Burning	d) Pollution		

32.	In each of the following question	ns, the two expressions on either side of the	
	sign (-) will have the same value if two terms on either side or on the same		
	side are interchanged.		
	$8 \div 2 \times 5 - 11 + 9 = 6 \times 2 - 5 + 4 \div 2$		
	a) 5, 9	b) 8, 5	
	c) 9, 6	d) 11, 5	
33.	Arrange the given words in alph	abetical order and tick the one that comes at	
the second place.			
	a) Interfere	b) Interlude	
	c) Intestine	d) Invent	
34. A river always has			
	a) Boats	b) Banks	
	c) Tributaries	d) Fishes	
35.	A hospital always has		
	a) Bed	b) Doctor	
	c) Room	d) Nurse	
36 The length of the bridge, which a train 130 metres long and travelling at 45			
	km/hr can cross in 30 seconds,	, is:	
	a) 200 m	b) 225 m	
	c) 245 m	d) 250 m	

37.	If 6 men and 8 boys can do a pie	ece of work in 10 days while 26 men and 48	
	boys can do the same in 2 days	s, the time taken by 15 men and 20 boys in	
	doing the same type of work w	vill be:	
	a) 4 days	b) 5 days	
	c) 6 days	d) 7 days	
38.	A vendor bought toffees at 6 f	for a rupee. How many for a rupee must he	
	sell to gain 20%?		
	a) 3	b) 4	
	c) 5	d) 6	
39.	A man buys a cycle for Rs. 14	00 and sells it at a loss of 15%. What is the	
	selling price of the cycle?		
	a) Rs. 1090	b) Rs. 1160	
	c) Rs. 1190	d) Rs. 1202	
40.	A is two years older than B who	o is twice as old as C. If the total of the ages	
	of A, B and C be 27, the how old is B?		
	a) 7	b) 8	
	c) 9	d) 10	
41.	Six years ago, the ratio of the a	ges of Kunal and Sagar was 6: 5. Four years	
	hence, the ratio of their ages wi	ill be 11: 10. What is Sagar's age at present?	
	a) 16 years	b) 18 years	
	c) 20 years	d) cannot be determined.	

42 7	42 The average of 20 numbers is zero. Of them, at the most, how many may be		
	greater than zero?		
	a) 0	b) 1	
	c) 10	d) 19	
43.	A car owner buys petrol at Rs	.7.50, Rs. 8 and Rs. 8.50 per litre for three	
	successive years. What approxi	imately is the average cost per litre of petrol	
	if he spends Rs. 4000 each year	r?	
	a) Rs. 7.98	b) Rs. 8	
	c) Rs. 8.50	d) Rs. 9.	
44.	In how many different ways ca	in the letters of the word 'CORPORATION'	
	be arranged so that the vowels	always come together?	
	a) 810	b) 1440	
	c) 2880	d) 50400	
45.	In how many ways can the lett	ers of the word 'LEADER' be arranged?	
	a) 72	b) 144	
	c) 360	d) 720	
46.	39 persons can repair a road i	n 12 days, working 5 hours a day. In how	
	many days will 30 persons, wo	orking 6 hours a day, complete the work?	
	a) 10	b) 13	
	c) 14	d) 15	

47.	. If a quarter kg of potato costs 60 paise, how many paise will 200 gm cost	
	a) 48 paise	b) 54 paise
	c) 56 paise	d) 72 paise
48.	A man invests some money p	artly in 9% stock at 96 and partly in 12%
	stock at 120. To obtain equal div	vidends from both, he must invest the money
	in the ratio:	
	a) 3:4	b) 3:5
	c) 4:5	d) 16: 15
49.	By investing Rs. 1620 in 8% s	stock, Michael earns Rs. 135. The stock is
	then quoted at:	
	a) Rs. 80	b) Rs. 96
	c) Rs. 106	d) Rs. 108
50.	Excluding stoppages, the speed	of a bus is 54 kmph and including stoppages,
	it is 45 kmph. For how many n	minutes does the bus stop per hour?
	a) 9	b) 10
	c) 12	d) 20
51.	A man completes a journey in	10 hours. He travels first half of the journey
	at the rate of 21 km/hr and seco	nd half at the rate of 24 km/hr. Find the total
	journey in km.	
	a) 220 km	b) 224 km
	c) 230 km	d) 234 km

52 A	52 An automobile financier claims to be lending money at simple interest, but		
	he includes the interest every six months for calculating the principal. If		
	is charging an interest of 10%,	the effective rate of interest becomes:	
	a) 10%	b) 10.25%	
	c) 10.5%	d) None of these	
53.	A starts business with Rs. 350	0 and after 5 months, B joins with A as his	
	partner. After a year, the prof.	it is divided in the ratio 2: 3. What is B's	
	contribution in the capital?		
	a) Rs. 7500	b) Rs. 8000	
	c) Rs. 8500	d) Rs. 9000	
54.	A and B started a partnership b	ousiness investing some amount in the ratio	
	of 3: 5. C joined then after six n	nonths with an amount equal to that of B. In	
	what proportion should the pr	rofit at the end of one year be distributed	
among A, B and C?			
	a) 3:5:2	b) 3:5:5	
	c) 6:10:5	d) None of these	
55.	Today is Monday. After 61 day	vs, it will be:	
	a) Wednesday	b) Saturday	
	c) Tuesday	d) Thursday	

56.	I think he took the criticism heart"?	
	a) to	b) in
	c) about	d) of
57.	The Chairman is ill and we'll h	have to the meeting for a few days.
	a) Put on	b) Put of
	c) Put away	d) Put off
58.	My first lesson. forgiveness ca	me from my mother.
	a) upon	b) about
	c) in	d) on
59.	I'm sure of it as you are.	
	a) quite	b) as
	c) perfectly	d) very
60. The teacher made the naughty boy		
	a) Tiptoe	b) Tiptoes
	c) To Tiptoe	d) None of these
61.	The police for the robber for loan	ng but they have failed to find him so far.
	a) Have looked	
	b) Have been looking	
	c) Has looked	
	d) Has been looking	

62.	. I'll come to meet you at the station in my car you do not have to walk to my	
	house.	
	a) So that	b) In order
	c) That	d) Because
63. Rubi talks a lot, doesn't she? Yes, although there no reason for		s, although there no reason for
	a) So much have talking.	
	b) Her so much talking	
	c) Iler talking so much	
	d) Talking her so much	
64. I would like to thank you behalf of all of us?		
	a) of	b) on
	c) about	d) in
65. He is jealous her success?		
	a) of	b) on
	c) about	d) in
66.	As me; I will be happy to lend a	hand?
	a) of	b) in
	c) about	d) for

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67. He was accused theft?		
	a) of	b) in
	c) about	d) on
68.	What did you make the lecture?	
	a) of	b) in
	c) about	d) on
69.	Unfortunately, we had to cancel	it owing the bad weather?
	a) of	b) in
	c) about	d) to
70.	It was kind you to help?	
	a) of	b) in
	c) about	d) on
71.	She cares the environment?	
	a) of	b) in
	c) about	d) on
72. He was embarrassed because everybody was laughing him?		
	a) of	b) in
	c) about	d) at
73. Green pepper is very rich vitamin C?		
	a) of	b) in
	c) about	d) on

74. Please wait for me. I will be finished five or ten minutes.			
	a) at	b) in	
	c) by	d) from	
75.	The railway track runs the river	•	
	a) over	b) across	
	c) by	d) on	
76.	Which feature of Java makes it	possible to run a Java program on differen	nt
	platforms?		
	a) Platform-Independent	b) Object-Oriented	
	c) Syntax	d) Memory Management	
77. Which keyword is used for inheritance in Java?			
	a) Implements	b) extends	
	c) super	d) inherit	
78. Which driver is called as thin-driver in JDBC?			
	a) Type-3 driver	b) Type-2 driver	
	c) Type-1 driver	d) Type-4 driver	
79. What is used to execute parameterized query?			
	a) Statement interface		
	b) PreparedStatement interface		
	c) ResultSet interface		
	d) None of these		17

80.	What is a servlet in Java?	
	a) A programming language	
	b) A scripting language	
	c) A server-side technology for	r Java web applications
	d) A database management sys	stem
81.	What is the purpose of the PAT	H environment variable in Java?
	a) To locate the Java compiler	
	b) To locate Java libraries	
	c) To store Java bytecode	
	d) To Optimize Java Code	
82.	What is the extension of compi	led java classes?
	a) .txt	b) .js
	c) class	d) java
83. Which one of the following is not an access modifier?		
	a) void	b) Protected
	c) Public	d) Private
84. Which of the following is the correct way of importing an entire package		
	"pkg"?.	
	a) import pkg.	b) Import pkg.
	c) import pkg.*	d) Import pkg.*

85. Which of this method is used to implement Runnable interface?		
	a) stop()	b) run()
	c) runThread()	d) stop Thread()
86.	is a responsible for ea	xecution of all .NET programs.
	a) CLS	b) CLR
	c) GC	d) all of these
87.	In ASP.NET web application c	configuration settings are defined in
	a) App.config	
	b) Machine.config	
	c) Web.config	
	d) System.config	
88.	When does Garbage collection	run?
	a) When application is running	g low of memory
	b) It runs random	
	c) When application is running	g for more than 15 minutes
	d) None of these	
89.	Which of the following server	control shows data in tabular format and
	allows sorting, paging, edit, de	elete each record?
	a) ListBox	b) GridView
	c) Repeater	d) None of these

90. To accept input value by the user in console application is used		
	a) Console.Read();	
	b) Console.ReadKey();	
	c) Console.ReadLine();	
	d) Console.ReadInput();	
91.	option of is command is used	to view hidden files from Linux operating
	system.	
	a) ls -1	b) Is-h
	c) Is-a	d) Is-k
92.	The user password is stored in	directory of Linux operating system.
	a) /etc/passwd	
	b) /root/password	
	c) /etc/password	
	d) /root-passwd	
93. In Linux, command is used to print the file.		
	a) print	b) Ip
	c) wc	d) pg
94. Working directory can be changed by using Linux command.		
	a) cmd	b) chdr
	c) cdr	d) ed

95. In Linux, TCP/IP Protocol is used for remote terminal connection service.		
a) FTP	b) UDP	
c) TELNET	d) RARP	
96. The Python files containing pyt	hon definitions and statements are called as	
a) Sequence	b) Modules	
c) Synonymy	d) Cluster	
97. command is used to execute Py	thon program from command prompt.	
a) execute	b) run	
c) py	d) compile	
98. is used to indicate a code block	in Python.	
a) Indentation	b) Brackets	
c) Key	d) Dollar	
99. From the following type of looping structure is not supported in Python.		
a) while	b) do-while	
c) for	d) none of these	
100. character is used to give single-line comments in Python.		
a)//	b)#	
c) \$	d)/*	