# Shivaji University , Kolhapur

| Seat No. | |
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**Paper Code(ENT202021)**

## M.Sc Entrance Exam , MAY-2020

## 58712-Computer Science

**Day And Date :** Thursday 19/11/2020 **Total Marks :** 100

**Time :** 13:00 To 14:30

| | | Marks |
|---|---|---|
| 1 | The Salal Project is on the river<br>A) Chenab<br>B) Jhelum<br>C) Ravi<br>D) Sutlej | 1 |
| 2 | Choose the word which is most nearly the SAME in meaning as the word given: DEGRADING<br>A) Demeaning<br>B) Lowering<br>C) Corrupting<br>D) Minimizing | 1 |
| 3 | The movie The Man Who knew infinity is a biopic based on the life of Indian mathematician.....<br>A) Aryabhatta<br>B) Srinivasa Ramanujan<br>C) C. Radhakrishna Rao<br>D) K.S. Chandrasekharan | 1 |
| 4 | Choose the word which is most nearly the SAME in meaning as the word given: BRIEF<br>A) Limited<br>B) Small<br>C) Little<br>D) Short | 1 |
| 5 | Choose the word which is most nearly the SAME in meaning as the word given: DISTANT<br>A) Far<br>B) Removed<br>C) Reserved<br>D) Separate | 1 |
| 6 | We are ___ to have him ____ here to make this function a great success.<br>A) pleased, over<br>B) sure, come<br>C) wonderful, again<br>D) happy, arrive | 1 |
| 7 | Pick out the word synonymous with the one in the sentence given in UPPERCASE: The boy gave a GRAPHIC account of the theft.<br>A) vague<br>B) vivid<br>C) drawing<br>D) picture | 1 |

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| 8 | Which of the following is NOT a valid type in Java?<br>A) void<br>B) init<br>C) integer<br>D) static | 1 |
| 9 | In Computer networking the protocols are_____<br>A) Agreements on how communication components and DTE's are to communicate.<br>B) Logical communication channels for transferring data.<br>C) Physical communication channels sued for transferring data.<br>D) None of these | 1 |
| 10 | A grocer has a sale of Rs. 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500?<br>A) Rs. 4991<br>B) Rs. 5991<br>C) Rs. 6991<br>D) Rs. 6001 | 1 |
| 11 | Choose the word which is most nearly the SAME in meaning as the word given INEVITABLY<br>A) Expectedly<br>B) Certainly<br>C) Mostly<br>D) Avoidably | 1 |
| 12 | _____ device translates host names into IP addresses.<br>A) Hub<br>B) DHCP Server<br>C) Firewall<br>D) DNS Server | 1 |
| 13 | The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:<br>A) 15<br>B) 16<br>C) 18<br>D) 25 | 1 |
| 14 | Ethernet system uses which of the following technology.<br>A) Bus<br>B) Ring<br>C) Star<br>D) Tree | 1 |
| 15 | How many Lok Sabha seats belong to Rajasthan?<br>A) 32<br>B) 25<br>C) 40<br>D) 48 | 1 |
| 16 | India's first satellite is named after<br>A) Aryabhatta<br>B) Bhaskara II<br>C) Bhaskara I<br>D) Albert Einstein | 1 |

17 India's first atomic reactor was 1

A) Zerlina

B) Dhruva

C) Apsara

D) Kamini

18 Heavy water is 1

A) deuterium oxide

B) PH7

C) rain water

D) tritium oxide

19 The southernmost point of peninsular India, that is, Kanyakumari, is 1

A) north of Tropic of Cancer

B) north of the Equator

C) south of the Capricorn

D) None of these

20 Which of the following factors are responsible for the rapid growth of sugar production in south India as compared to north India?I Higher per acre field of sugarcane II Higher sucrose content of sugarcane III Lower labour cost IV Longer crushing period 1

A) I and II

B) I, II and III

C) I, III and IV

D) I, II and IV

21 The percentage of earth surface covered by India is 1

A) 2.4

B) 3.4

C) 4.4

D) 5.4

22 Permanent Secretariat to coordinate the implementation of SAARC programme is located at 1

A) Dhaka

B) New Delhi

C) Colombo

D) Kathmandu

23 egg: fish : : _____ : plant 1

A) leaf

B) seed

C) root

D) stem

24 The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child? 1

A) 4 years

B) 8 years

C) 10 years

D) None of these

25 wave: crest : : _____ : peak 1

A) water

B) top

C) moving

D) mountain

26 In a code, CORNER is written as GSVRI. How can CENTRAL be written in that code? 1

A) DFOUSBM

B) GIRXVEP

C) GJRYVEP

D) GNFJKER

27 In the following question, various terms of an alphabet series are given with one or more terms missing as shown by (?). Choose the missing terms out of the given alternatives. OTE, PUF, QVG, RWH, ? 1

A) SYJ

B) TCI

C) SXJ

D) SXI

28 In the following question, various terms of an alphabet series are given with one or more terms missing as shown by (?). Choose the missing terms out of the given alternatives. EJO, TYD, INS, XCH, ? 1

A) NRW

B) MRW

C) MSX

D) NSX

29 In the following question,Three of the words will be in the same classification, the remaining one will not be. Your answer will be the one word that does NOT belong in the same classification as the others. Which word does NOT belong with the others? 1

A) street

B) freeway

C) interstate

D) expressway

30 In the following question,Three of the words will be in the same classification, the remaining one will not be. Your answer will be the one word that does NOT belong in the same classification as the others. Which word does NOT belong with the others? 1

A) parsley

B) basil

C) dill

D) mayonnaise

31 There are six persons A, B, C, D , E and F. C is the sister of F. B is the brother of E's husband. D is the father of A and grandfather of F. There are two fathers, three brothers and a mother in the group. Which of the following is a group of brothers ? 1

A) ABD

B) ABF

C) BFC

D) BDF

32 Garampani sanctuary is located at 1

A) Junagarh, Gujarat

B) Diphu, Assam

C) Kohima, Nagaland

D) Gangtok, Sikkim

33 India has largest deposits of ____ in the world. 1

A) gold

B) copper

C) mica

D) None of the above

34 The headquarters of the UNESCO is at 1

A) Rome

B) Geneva

C) New York

D) Paris

35 A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, the how old is B? 1

A) 7

B) 8

C) 9

D) 10

36 In certain code, TOGETHER is written as RQEGRJCT. In the same code PAROLE will be written as 1

A) NCPQJG

B) NCQPJG

C) RCPQJK

D) RCTQNG

37 In each of the following question, Each question has a word followed by four answer choices. You will choose the word that is a necessary part of the underlined word. language 1

A) tongue

B) slang

C) writing

D) words

38 Find the number that fits somewhere into the middle of the series. Some of the items involve both numbers and letters Look at this series: V, VIII, XI, XIV, __, XX, ... What number should fill the blank? 1

A) IX

B) XXIII

C) XV

D) XVII

39 A family consists of six members P, Q, R, X, Y and Z. Q is the son of R but R is not mother of Q. P and R are a married couple. Y is the brother of R. X is the daughter of P. Z is the brother of P. Who is the father of Q ? 1

A) P

B) R

D) Z

40 lion: animal : : flower : _____ 1

A) plant

B) roots

C) grass

D) rose

41 boy: child : : man : _____ 1

A) father

B) uncle

C) adult

D) person

42 If in a certain code ,TEACHER is written as VGCEJGT, how would DULLARD be written in the same code ? 1

A) FWMNCTF

B) FWNNBTE

C) FWNNCSF

D) FWNNCTF

43 If TRAIN is coded as RPYGL, the code for SCOOTER would be 1

A) QAMMRCP

B) QBNNRCP

C) QAMMSBP

D) QBNNSBP

44 In the following question, various terms of an alphabet series are given with one or more terms missing as shown by (?). Choose the missing terms out of the given alternatives. Z, W, S, P, L, I, E, ? 1

A) B

B) D

C) F

D) K

45 A man invests some money partly in 9% stock at 96 and partly in 12% stock at 120. To obtain equal dividends from both, he must invest the money in the ratio: 1

A) 3 : 4

B) 3 : 5

C) 4 : 5

D) 16 : 15

46 From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done? 1

A) 564

B) 645

C) 735

D) 756

47 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day? 1

A) 9

B) 10

C) 11

D) 12

48 A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is: 1

A) Rs. 650

B) Rs. 690

C) Rs. 698

D) Rs. 700

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| 49 | A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?<br>A) 3.6<br>B) 7.2<br>C) 8.4<br>D) 10 | 1 |
| 50 | A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is:<br>A) Rs. 1425<br>B) Rs. 1500<br>C) Rs. 1537.50<br>D) Rs. 1576 | 1 |
| 51 | The ratio between the perimeter and the breadth of a rectangle is 5 : 1. If the area of the rectangle is 216 sq. cm, what is the length of the rectangle?<br>A) 16 cm<br>B) 18 cm<br>C) 24 cm<br>D) 28 cm | 1 |
| 52 | From a point P on a level ground, the angle of elevation of the top tower is 30º. If the tower is 100 m high, the distance of point P from the foot of the tower is:<br>A) 149 m<br>B) 156 m<br>C) 173 m<br>D) 200 m | 1 |
| 53 | Find the number in place of (?) in the following series 16, 33, 65, 131, 261, ?<br>A) 523<br>B) 521<br>C) 613<br>D) 721 | 1 |
| 54 | If one-third of one-fourth of a number is 15, then three-tenth of that number is:<br>A) 35<br>B) 36<br>C) 45<br>D) 54 | 1 |
| 55 | Choose the word which is most nearly the SAME in meaning as the word given FORMULATE<br>A) Frame<br>B) Apply<br>C) Contemplate<br>D) Regularize | 1 |
| 56 | Choose the word which is most nearly the SAME in meaning as the word given WARRIOR<br>A) Soldier<br>B) Sailor<br>C) Pirate<br>D) Spy | 1 |
| 57 | (112 x 54) = ?<br>A) 67000<br>B) 6048<br>C) 7658<br>D) 7728 | 1 |

58 The state Govt. staff ___ threatened to launch an indefinite strike from next month to ___ their demands. 1

A) have, press

B) were, meet

C) did, get

D) had, press

59 In questions given below out of four alternatives, choose the one which can be substituted for the given word/sentence: Leave or remove from a place considered dangerous 1

A) Evade

B) Evacuate

C) Avoid

D) Exterminate

60 In questions given below out of four alternatives, choose the one which can be substituted for the given word/sentence: That which cannot be corrected 1

A) Unintelligible

B) Indelible

C) Illegible

D) Incorrigible

61 In the questions below the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice: Darjeeling grows tea. 1

A) Tea is being grown in Darjeeling.

B) Let the tea be grown in Darjeeling.

C) Tea is grown in Darjeeling.

D) Tea grows in Darjeeling.

62 In the questions below the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice: He is said to be very rich. 1

A) He said he is very rich.

B) People say he is very rich.

C) He said it is very rich.

D) People say it is very rich.

63 In the questions below the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice: James Watt discovered the energy of steam. 1

A) The energy of steam discovered James Watt.

B) The energy of steam was discovered by James Watt.

C) James Watt was discovered by the energy of steam.

D) James Watt had discovered energy by the steam.

64 In the questions below the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice: The doctor advised the patient not to eat rice. 1

A) The patient was advised by the doctor not to eat rice.

B) The patient was advised by the doctor that he should not eat rice.

C) The patient was being advised by the doctor that he should not rice by the doctor.

D) The patient has been advised not to eat rice by the doctor.

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| 65 | The Java compiler translates source code into<br>A) Machine code<br>B) Assembly code<br>C) Byte code<br>D) JVM code | 1 |
| 66 | In Java arrays are _____<br>A) Objects<br>B) Object references<br>C) Primitive data type<br>D) Constant | 1 |
| 67 | From the following character escape code_____ is not available in Java.<br>A) \t<br>B) \r<br>C) \a<br>D) \\ | 1 |
| 68 | Ten years ago, P was half of Q's age. If the ratio of their present ages is 3:4, what will be the total of their present ages?<br>A) 45<br>B) 40<br>C) 35<br>D) 30 | 1 |
| 69 | In Java programming _____ method cannot be overridden.<br>A) super<br>B) static<br>C) final<br>D) private | 1 |
| 70 | Java was developed by _____.<br>A) Sun micro system<br>B) Microsoft<br>C) Oracle<br>D) IBM | 1 |
| 71 | In Java exception generated in try block is caught in _____ block.<br>A) catch<br>B) throw<br>C) throws<br>D) finally | 1 |
| 72 | Java _____ can run from a Web browser.<br>A) Application<br>B) Applets<br>C) Servlets<br>D) Micro Edition programs | 1 |
| 73 | In java a thread can be created by _____<br>A) Extending the thread class.<br>B) Implementing Runnable interface.<br>C) Both a and b<br>D) None of these | 1 |

74 _____ language is not a true object-oriented programming language. 1

A) VB.NET
B) VB 6
C) Java
D) C#

75 _____ is interpreted. 1

A) Java
B) C
C) C++
D) Pascal

76 From the following Visual Studio .NET provides _____ feature. 1

A) debugging.
B) application deployment.
C) syntax checking.
D) All of these

77 _____ is not a main component of the Visual Studio IDE. 1

A) Solution Explorer
B) Tool Box
C) Start Menu
D) Designer Window

78 6.Machine language is also known as _____ language 1

A) Low level
B) High level
C) Middle level
D) Upper level

79 In questions given below out of four alternatives, choose the one which can be substituted for the given word/sentence: That which cannot be seen 1

A) Insensible
B) Intangible
C) Invisible
D) Unseen

80 _____ allows you to set the initial values of variables. 1

A) Initializers
B) Inheritance
C) Multithreading
D) Structured Exception Handling

81 _____ data communication method is used to transmit the data over a serial communication link. 1

A) Simplex
B) Half-duplex
C) Full duplex
D) All of these

82 In VB.NET, an array indexes start at _____. 1

A) 1
B) 0
C) 4
D) 7

83 In OSI model dialogue control and token management are responsibilities of _____ layer. 1

A) Session

B) Network

C) Transport

D) Data link

84 In Linux OS _____ command is used to record a user login session in a file. 1

A) macro

B) read

C) script

D) cat

85 Which of the following are the network services? 1

A) File Service

B) Print Service

C) Database Service

D) All of the above

86 India's first ocean wave's energy project was launched in 1

A) 1981

B) 1991

C) 1995

D) 2000

87 Which of the following describe correctly the Group of Seven Countries (G-7)? 1

A) They are developing countries

B) They are developing countries

C) They are holding Atomic Bomb technology

D) They are countries who can launch their own satellites

88 Pointing to a photograph, a man said, I have no brother or sister but that man's father is my father's son. Whose photograph was it? 1

A) His own

B) His nephew's

C) His father's

D) His son's

89 A man said to a lady, Your mother's husband's sister is my aunt. How is the lady related to the man? 1

A) Sister

B) Daughter

C) Mother

D) Grand daughter

90 In questions given below out of four alternatives, choose the one which can be substituted for the given word/sentence: A person interested in collecting, studying and selling of old things 1

A) Antiquarian

B) Junk-dealer

C) Crank

D) Archeologist

91 Find the number that fits somewhere into the middle of the series. Some of the items involve both numbers and letters. Look at this series: (1/9), (1/3), 1, ____ , 9, ... What number should fill the blank? 1

A) (2/3)

B) 3

C) 6

D) 27

92 A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train? 1

A) 120 metres

B) 180 metres

C) 324 metres

D) 150 metres

93 Find the odd number in the following series 1, 4, 9, 16, 23, 25, 36 1

A) 9

B) 23

C) 36

D) 25

94 The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs. 4000. The total price of 12 chairs and 3 tables is: 1

A) Rs. 3500

B) Rs. 3750

C) Rs. 3840

D) Rs. 3900

95 Present ages of Kiran and Syam are in the ratio of 5:4 respectively. Three years hence, the ratio of their ages will become 11:9 respectively. What is Syam's present age in years? 1

A) 28

B) 27

C) 26

D) 24

96 She has not recovered fully --- the shock of his failure. 1

A) against

B) from

C) of

D) off

97 In questions given below out of four alternatives, choose the one which can be substituted for the given word/sentence: A place that provides refuge 1

A) Asylum

B) Sanatorium

C) Shelter

D) Orphanage

98 The master dispensed --- the services of his servant. 1

A) of

B) with

C) off

D) for

| | | |
|---|---|---|
| 99 | _____ is not a property of the common control class.<br>A) Show<br>B) BackColor<br>C) Font<br>D) ForeColor | 1 |
| 100 | FTP stands for<br>A) File transfer protocol<br>B) File transmission protocol<br>C) Form transfer protocol<br>D) Form transmission protocol | 1 |