Shivaji University, Kolhapur
M.Sc. (Computer Science)
Entrance Examination, August-2023
Subject Code : 58712

Day and Date : Tuesday, 08-08-2023   **Total Marks : 100**
Time : 10.30 am To 12.00 noon

Instructions: 1)   All questions are COMPULSORY.

                 2)   There is NO negative marking.

                 3)   Each question carries ONE mark.

1)   Who is the new Union Home Secretary?

      a) Rajiv Gauba   b) Sanjay Mitra

      c) Subash Chandra   d) Ajay Kumar Bhalla

2)   The boundaries of the plates of the earth's crust are the weak zones known as .... zones.

      a) Cosmic   b) Seismic

      c) Formic   d) Anemic

3)   Who becomes fastest Indian to reach 100 ODI wickets?

      a) Ajit Agarkar   b) Ravichandran Ashwin

      c) Jasprit Bumrah   d) Mohammed Shami

4)   Who among the following wrote Sanskrit grammar?

      a) Kalidasa   b) Charak

      c) Panini   d) Aryabhatt

5)   World Computer Literacy Day is celebrated annually on ....

      a) December 1   b) December 2

      c) December 3   d) December 4

6) Fathometer is used to measure ....

a) Earthquakes   b) Rainfall

c) Ocean depth   d) Sound intensity

7) DRDL stands for ....

a) Defense Research and Development Laboratory

b) Department of Research and Development Laboratory

c) Differential Research and Documentation Laboratory

d) Defense Report and Documentary Location

8) Which treatment has been dropped from the list of COVID-19 treatments in India?

a) Convalescent Plasma therapy

b) Vaccination

c) Oxygen Therapy

d) Hydro-dilatation

9) The first-ever National Road Safety Month was observed in which year, in India?

a) 2010   b) 2016

c) 2021   d) 2020

10) Who was the first Recipient of the Aadhaar Card ?

a) Amrita Patil   b) Smita Roy

c) Rajiv Singh   d) Ranjana Sonawane

11) Pooja Rani Bohra is associated with which sport?

a) Table Tennis.   b) Boxing

c) Athletics   d) Archery

12) Who was announced by Star Sports as its brand ambassador on April 21, 2023?

a) Hardik Pandya   b) Rishabh Pant

c) Ravindra Jadeja   d) Axer Patel

13) Which planet is NASA training four people to live on in June 2023?

   a) Venus   b) Mars

   c) Jupiter   d) Saturn

14) Which country launched the world's first nationwide 5G mobile network?

   a) Japan   b) Malaysia

   c) South Korea   d) China

15) Which state government decided to start world's largest floating solar project by 2023

   a) Tamil Nadu

   b) West Bengal

   c) Karnataka

   d) Madhya Pradesh

16) Look at this series: 2, 1, (1/2), (1/4), ... What number should come next?

   a) (1/3)   b) (1/8)

   c) (2/8)   d) (1/16)

17) Look at this series: 7, 10, 8, 11, 9, 12, ... Which number should come next?

   a) 7   b) 10

   c) 12   d) 13

18) CUP: LIP: BIRD : ?

   a) GRASS   b) FOREST

   c) BEAK   d) BUSH

19) 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?

   a) His own   b) His Son

   c) His Father   d) His Grandfather

20) If all the digits are dropped, which of the following is third to the right of the eleventh from the right end?

*E 7 O & 6 ^ 4 Z 5 * 3 9 T ! D # 2 $ U

a) ^
b) T

c) Z
d) &

21) Find the odd one out

a) December
b) February

c) March
d) July

22) Cup is to coffee as bowl is to ?

a) dish
b) soup

c) spoon
d) food

23) Odometer is to mileage as compass is to ?

a) speed
b) hiking

c) needle
d) direction

24) Six members of a family ABCDE and F are travelling together. B is the son of C but C is not the mother of B. A and C are married couple. E is the brother of C. D is the daughter of A. F is the brother of B. How many male members are there in the family?

a) 4
b) 3
c) 2
d) 1

25) A and B are young ones of C. If C is the father of A but B is not the son of C. How are B and C related ?

a) Niece and Uncle
b) Daughter and Father

c) Niece and Uncle
d) Daughter and Mother

26) Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to the man in the photograph?

a) Sister
b) Aunt

c) Grandmother
d) Daughter

27) If VICTORY is coded as YLFWRUB, how can SUCCESS be coded?

   a) VXEEIVV

   b) VXFFHVV

   c) VYEEHVV

   d) VYEFIVV

28) In a certain code, COMPUTER is written as RFUVQNPC. How is MEDICINE written in the same code ?

   a) EOJDJEFM

   b) EOJDEJFM

   c) MFEJDJOE

   d) MFEDJJOE

29) Find the odd one out

   a) Libra   b) Saturn

   c) Mars   d) Venus

30) How many times do the hands of a clock coincide in 24 hours?

   a) 22   b) 24   c) 26   d) 28

31) Choose the word which is not similar to the other words in the group

   a) Peas   b) Cabbage

   c) Spinach   d) Tomato

32) If 'dog' is called 'lion', 'lion' is called 'bison', 'bison' is called 'snake', 'snake' is called 'mongoose', 'mongoose' is called 'crocodile', then which one is reared as pet?

   a) Lion   b) Bison

   c) Snake   d) Mongoose

33) Digambar moved a distance of 150 m towards north. He then turned to the left and walked for about 50 m, turned left again and walked another 160 m. Finally, he turned to the right at an angle of 45°? In which direction was he moving finally?

a) South-west

b) South-east

c) North-west

d) North-east

34) Smita prefers Economics to Maths, English to Social science, and Political Science to History. If she prefers Maths to History, and Social science to Maths, which is Smita's least preferred subject?

a) History

b) Maths

c) Social science

d) Economics

35) A school organized a knockout football competition in which 23 teams played. What was the least number of matches they needed to play to decide the winner?

a) 11 matches

b) 62 matches

c) 21 matches

d) 22 matches

36) A grocer wishes to sell a mixture of two variety of pulses worth Rs. 16 per kg. In what ratio must he mix the pulses to reach this selling price, when cost of one variety of pulses is Rs.14 per kg and the other is Rs.24 per kg?

a) 2:5   b) 4:3   c) 2:1   d) 4:1

37) A father is twice as old as his daughter. If 20 years ago, the age of the father was 10 times the age of the daughter, what is the present age of the father?

a) 40 years   b) 45 years   c) 30 years   d) 22 years

38) A woman can row upstream at 16 km/hr and downstream at 26 km/hr. What is the speed of the stream?

a) 5 km/hr

b) 2 km/hr

c) 21 km/hr

d) 12 km/hr

39) For the given number series, find what will come in place of the question mark (?)

2.5, 5, 7.5, ?, 37.5, 112.5

a) 10.5 b) 12

c) 15 d) 15.5

40) It takes 6 hours for three pipes, X, Y and Z to fill a tank. When the three worked together for 2 hours, Z was closed and, X and Y filled the remaining tank in 7 hours. How many hours would it take Z alone to fill the tank?

a) 15 hours b) 14 hours

c) 21 hours d) 12 hours

41) Ram and Shyam are standing at two ends of a room with a width of 30 m. They start walking towards each other along the width of the room with a Speed of 2 m/s and 1 m/s, respectively. Find the total distance travelled by Ram when he meets Shyam for the third time.

a) 110 m b) 100 m

c) 120 m d) 112 m

42) Dev completed the school project in 20 days. How many days will Arun take to complete the same work if he is 25% more efficient than Dev?

a) 10 days b) 15 days

c) 16 days d) 12 days

43) A boy was asked to multiply a number by 25 but by mistake he multiplied by 45 and the answer was 200 more than the correct answer. What was the number?

a) 7 b) 8

c) 10 d) 12

44) The population of a town is increased from 54500 to 58500 in one year. What is the percentage increase in the population?

a) 6.34% b) 5.34%

c) 7.34% d) 4.34%

45) The first republic day of India was celebrated on January 26, 1950. What day of the week was it?

a) Saturday

b) Friday

c) Tuesday

d) Thursday

46) A moneylender charges Rs. 180 as simple interest on a sum of Rs. 600 for four months. What is the rate of interest per annum?

a) 80%

b) 85%

c) 90%

d) 95%

47) Two trains of length 120 meters and 140 meters are moving in the same direction on parallel tracks at speed of 82 km/hr and 64 km/hr. In what time the first train will cross the second train?

a) 42 seconds

b) 48 seconds

c) 52 seconds

d) 60 seconds

48) The length of a rectangle is thrice its breath, and its perimeter is 106 meters. What is its area?

a) 507 sq.m.

b) 508 sq.m.

c) 509 sq.m.

d) 510 sq.m.

49) The ratio of income of two workers A and B are 3: 4. The ratio of expenditure of A and B is 2: 3 and each saves Rs 200. Find the income of A and B.

a) 500, 600

b) 600, 800

c) 600, 900

d) 800, 1000

50) In a 100 m race, A covers the distance in 36 seconds and B covers in 45 seconds. In this race, A beats B by ....

a) 20 m

b) 25 m

c) 22.5 m

d) 9 m

51) A man draws two cards together from a pack of 52 cards. What is the probability of both the cards being kings?

a) 1/111

b) 1/121

c) 1/221

d) 1/321

52) Find out the wrong number in the series: 125, 106, 88, 76, 65, 58, 53

a) 125

b) 106

c) 88

d) 76

53) If the cost price of 120 mangoes is equal to the selling price of 100 mangoes, what is the profit percent in this transaction?

a) 15%

b) 17%

c) 20%

d) 21%

54) A horse covers a certain distance in 40 minutes if it runs at a speed of 60 km/hr. At what speed the horse can cover the same distance in 30 minutes?

a) 80 km/hr

b) 82 km/hr

c) 84 km/hr

d) 86 km/hr

55) 5 men undertook a piece of work and finished half the work in 18 days if two men drop out, in how many days the remaining work will be completed?

a) 30 days

b) 32 days

c) 34 days

d) 36 days

Fill in the blanks with appropriate option:

56) English is .... language of the people of England.

a) an

b) a

c) the

d) None

57) My favorite flower is .... rose.

a) an

b) a

c) the

d) None

58) Now that we .... safe we stopped to take breath.

   a) feel   b) felt

   c) feels   d) None

59) You .... go only if you have permission.

   a) can   b) could

   c) might   d) None

60) I wished that I .... come earlier.

   a) can   b) shall

   c) could   d) None

Choose the word that is most nearly opposite in meaning to the word in capital letters:

61) EVERYDAY

   a) eerie   b) unruly

   c) routine   d) tedious

62) MINIMUM

   a) valley   b) median

   c) apex   d) mean

63) CORROBORATE

   a) refute   b) refrain

   c) research   d) affirm

64) RESPECTFUL

   a) obedient

   b) courteous

   c) offensive

   d) civil

65) AID

    a) meander   b) flounder

    c) hamper   d) scuttle

Choose the best synonym for the word in capital letters:

66) WATCH

    a) follow   b) view

    c) chase   d) take

67) WANDER

    a) meander   b) search

    c) jog   d) wrestle

68) STROLL

    a) trot   b) gallop

    c) amble   d) move

69) DIPLOMAT

    a) general

    b) ambassador

    c) refugee

    d) revolt

70) CONSERVATION

    a) environment   b) technology

    c) agriculture   d) preservation

Choose the best word(s) to complete each sentence:

71) He used to live .... London.

    a) on   b) in

    c) to   d) at

72) James .... to him on the phone.

a) speak   b) speaked

c) spoke   d) spoken

73) I won't go to Cambridge if it .... tomorrow.

a) rain   b) would rain

c) rains   d) raining

74) While he .... to London he saw an accident.

a) was driving   b) drives

c) drove   d) had

75) He has a ....experience in marketing in Europe.

a) grand   b) wide

c) large   d) great

76) Which object of ADO.NET has the best performance, for retrieving the data?

a) DataSet   b) DataReader

c) Data Provider   d) Dataadapter

77) Which of the following statements is correct about an Exception?

a) It occurs during compilation

b) It occurs during linking

c) It occurs during runtime

d) it occurs during Just-In-Time compilation

78) Code that targets the Common Language Runtime is known as

a) Unmanaged

b) Distributed

c) Native Code

d) Managed Code

79) The ASP.NET developed by?

    a) Google   b) Oracle

    c) Sun Microsystems   d) Microsoft

80) .... is a type of client side state management

    a) Query string   b) Cookies

    c) Hidden fields   d) All of these

81) .... is the inventor of Python language.

    a) Guido Van Rossum   b) Zim Den

    c) Ramse Bandhu   d) Nil Gate

82) .... is not a core data type in the Python language.

    a) Dictionary   b) Lists

    c) Tuple   d) Class

83) Which of the following is the truncation division operator in Python?

    a) | b) //   c) /   d) %

84) Print command in Python programming language prints ....

    a) any object   b) only integer

    c) only float   d) only Boolean

85) What will be the output in Python for 2**2**3**1=?

    a) 256   b) 12   c) 128   d) 64

86) SOAP in C# stands for ....

    a) Simple Object Access Protocol

    b) Simple Object Access Program

    c) Standard Object Access Protocol

    d) Standard Object Access Program

87) In C#, CLR stands for ....

a) Common Light System

b) Common Language Specification

c) Common Language Runtime

d) Correct Language Resource

88) Who is the founder of C# programming language?

a) Douglas Crockford

b) Anders Hejlsberg

c) Rasmus Lerdorf

d) Brendan Eich

89) The extension of a C# programming language file is ....

a) .cs

b) .csp

c) .cpp

d) .c

90) C# runs on the ....

a) Java Virtual Machine

b) DOS

c) .Net framework

d) none of these

91) Who is known as the father of PHP?

a) David Korvi

b) Rasmus Lerdorf

c) Willam Woodcart

d) Bill Barely

92) The variable name in PHP starts with

a) Ampersand

b) Hash

c) Exclamation

d) Dollar

93) Which function displays the information about PHP?

a) info()   b) php_infor()

c) sysinfo()   d) phpinfo()

94) Which of the following is not the scope of variable in PHP?

a) Local

b) Global

c) Extern

d) Static

95) PHP is .... scripting language.

a) server-side   b) client-side

c) middle-side   d) out-side

96) Which statement is true about Java?

a) Java is a sequence-dependent programming language

b) Java is a code dependent programming language

c) Java is a platform-dependent programming language

d) Java is a platform-independent programming language

97) Which of the following is a superclass of every class in Java?

a) ArrayList

b) Abstract class

c) Object class

d) String

98) Which one of the following is not an access modifier?

a) Protected   b) Void

c) Public   d) Private

99) Which one of these events will cause the thread to die?

   a) when the execution of the run() method ends

   b) on calling the sleep() method

   c) on calling the wait() method

   d) when the execution of the start() method ends

100) What are the major components of the JDBC?

   a) DriverManager, Statement, and ResultSet

   b) DriverManager, Connection, Statement, and ResultSet

   c) DriverManager, Driver, Connection, and Statement

   d) DriverManager, Driver, Connection, Statement, and ResultSet

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