Seat No.	

P.G. Entrance Examination, June - 2022
M.Sc. COMPUTER SCIENCE
Sub. Code : 58712

Day and Date : Saturday, 11/06/2022   **Total Marks : 100**
Time : 01.00 p.m. to 02.30 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)   Which Indian classical vocalist is awarded Padma Vibhushan in the year 2022?
   A)   Prabha Atre   B)   M.S. Subbulakshmi
   C)   Deepa Nair   D)   Nina Burmi

2)   Who has been appointed as the new Chairman of National School of Drama (NSD)?
   A)   Paresh Rawal   B)   Prakash Raj
   C)   Nasiruddin Shah   D)   Nana Patekar

3)   A _____ creates an object by copying variables from another object.
   A)   Copy Constructor   B)   Default Constructor
   C)   Invoking Constructor   D)   Calling Constructor

4)   Which Indian Actor was among the winners of the latest edition of the Indian Film Festival of Melbourne Awards?
   A)   Varun Dhawan   B)   Vickey Kaushal
   C)   Manoj Bajpayee   D)   Nana Patekar

P.T.O.

5) Pen is to poet as needle is to _____

A) Tailor   B) Thread

C) Sewing   D) Button

6) What will be the day of the week on 1ˢᵗ January 2010?

A) Friday   B) Saturday

C) Sunday   D) Monday

7) A car travels a certain distance taking 7 hrs in forwarding journey, during the return journey increased speed 12km/hr takes the times 5 hrs. What is the distance traveled

A) 210   B) 30

C) 20   D) none of these

8) A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days while Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?

A) 7   B) 8

C) 11   D) 12

9) In an election between two candidates, one got 55% of the total valid votes, and 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was :

A) 2500   B) 2700

C) 2900   D) 3100

10) 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

11) In the following question, choose the correct code form. If BATMAN is coded as123416, PERMAN is coded as 987416, then TAPER is coded as?

A) 32987　　　　　　　　　　B) 38972

C) 32978　　　　　　　　　　D) None of these

12) Which word is the odd man out?

A) trivial　　　　　　　　　　B) insignificant

C) important　　　　　　　　　D) none of these

13) _____ is a Natural World Heritage Site.

A) Western Ghats　　　　　　B) The Jantar Mantar

C) Dholavira　　　　　　　　D) Rock Shelters of Bhimbetka

14) Find the wrong number in series: 15, 25, 30, 51, 85, 90, 115

A) 30　　　　　　　　　　　　B) 51

C) 85　　　　　　　　　　　　D) None of these

15) Window is to pane as book is to

A) Novel　　　　　　　　　　B) Glass

C) Page　　　　　　　　　　　D) Cover

16) B2CD, ____,BCD4, B5CD, BC6D

A) B2C2D　　　　　　　　　　B) BC3D

C) B2C3D　　　　　　　　　　D) BCD7

17) Which word is the odd man out?

A) trivial　　　　　　　　　　B) unimportant

C) important　　　　　　　　　D) insignificant

18) Melt : Liquid :: Freeze :

A) Ice

B) Solid

C) Condense

D) Push

19) If Karan says, 'Rocky's mother is the only daughter of my mother", how is Karan related to Rocky?

A) Brother

B) Father

C) Uncle

D) Grandfather

20) An accurate clock shows 10 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 6 o'clock in the evening?

A) 180

B) 190

C) 220

D) 240

21) 4, 10, 28, ?, 244, 730

A) 24

B) 77

C) 82

D) 98

22) Find the missing number.

4	8	20
9	3	15
6	6	?

A) 16

B) 18

C) 20

D) 22

23) Two-third of one-fifth of one-fourth of a number is 10. What is 30% of that number?

A) 60   B) 100

C) 270   D) 90

24) World's longest highway tunnel above 10,000 Feet is _____

A) Atal Tunnel   B) Budhni Tunnel

C) Chiplun   D) Borra

25) In what ways the letters of the word PUZZLE can be arranged to form the different new words so that the vowels always come together?

A) 280   B) 450

C) 630   D) 120

26) If 15 men can reap the crops of a field in 28 days, in how many days will 5 men reap it?

A) 50 days   B) 60 days

C) 84 days   D) 9.333 days

27) Worker A completes a task in 8 days and worker B completes the same task in 10 days. If both A and B work together, in how many days they will complete the task?

A) 40/10 days   B) 40/9 days

C) 40/8 days   D) 40/7 days

28) Two ships are sailing in the sea on the two sides of a lighthouse. The angles of elevation of the top of the lighthouse observed from the ships are 30° and 45° respectively. If the lighthouse is 100m high, find the distance between the two ships.

A) 155.80 m   B) 157.80 m

C) 159.80 m   D) 161.80 m

29) How many times the hands of a clock coincide in a day?

A) 24

B) 22

C) 23

D) 21

30) Sohan started a business with a capital of Rs. 80000. After 6 months Mohan joined as a partner by investing Rs. 65000. After one year they earned total profit Rs. 20000. What is share of Sohan in the profit?

A) Rs. 5222.2

B) Rs. 5777.7

C) Rs. 6222.2

D) Rs. 6777.7

31) In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

A) 360

B) 480

C) 720

D) 5040

32) 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?

A) 564

B) 645

C) 735

D) 756

33) Six years ago, the ratio of the ages of Kunal and Sagar was 6: 5. Four years hence, the ratio of their ages will be 11:10. What is Sagar's age at present?

A) 16 years

B) 18 years

C) 20 years

D) Cannot be determined

34) A man buys a cycle for Rs. 1400 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

35) Who gave the name Asani cyclone?

A) India   B) Sri Lanka

C) Bangladesh   D) Pakistan

36) In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?

A) 30%   B) 70%

C) 100%   D) 250%

37) 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 :

A) 15   B) 16

C) 18   D) 25

38) 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%

39) 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

40) 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

41) Nakita is getting _____ the car.

A) of   B) off

C) out of   D) out off

42) Jyoti is older _____ Savita, while Bharati is _____ oldest.

A) than, an   B) from, the

C) then, the   D) than, the

43) If you have time, you _____ the nature museum.

A) should visit   B) should visited

C) have to visit   D) would visit

44) The sun rises —— the east.

A) in   B) on

C) from   D) towards

45) The market is nearer to them than _____.

    A)   we   B)   our self

    C)   us   D)   ourselves

46) First Bank to introduce Credit Card in India _____.

    A)   HSBC Bank   B)   ICICI Bank

    C)   State Bank of India   D)   Central Bank of India

47) The house is large _____ is quite old-fashioned.

    A)   and   B)   or

    C)   which   D)   but

48) He is looking for accommodation _____ in a flat or shared house.

    A)   both   B)   until

    C)   neither   D)   either

49) I enjoy _____ tennis.

    A)   to play   B)   plays

    C)   playing   D)   to playing

50) Smita, Sheetal and I _____ good friends.

    A)   am   B)   was

    C)   are   D)   been

51) She is looking for a job in _____ electronic or print media.

    A)   both   B)   between

    C)   neither   D)   either

52) It was raining yesterday, so we _____ out.

    A)   did not go
          B)   did not went

    C)   would not go
          D)   would not gone

53) The ·NET Framework provides a runtime environment called _____.

    A)   RMT
          B)   RCT

    C)   RC
          D)   CLR

54) The default value for an integer variable is _____.

    A)   False
          B)   Null

    C)   −1
          D)   0

55) Objects cannot be created for _____ class.

    A)   Static
          B)   Student

    C)   Abstract
          D)   Struct

56) A super class is also called as _____.

    A)   Base class
          B)   Derived class

    C)   Sub class
          D)   Inherit class

57) First Indian woman to win Man Booker Prize?

    A)   Kiran Desai
          B)   V.S. Naipaul

    C)   Salman Rushdie
          D)   Arundhati Roy

58) Operators or function to have more than form is_____ .

    A)   Inheritance
          B)   Polymorphism

    C)   Abstraction
          D)   Encapsulation

59) Which of the following is not PHP Loops?

    A) while   B) do for

    C) do while   D) none of these

60) 'new' is used for _____ the objects.

    A) Creating   B) Modifying

    C) Allocating memory of   D) Deallocating memory of

61) _____ is a part of ADO.NET data provider which acts as a communicator between Dataset and the data source.

    A) DataSet   B) DataAdapter

    C) DataView   D) DataTable

62) In C#, a subroutine is called a _____.

    A) Function   B) Metadata

    C) Method   D) Managed Code

63) In Java JMenuBar class is extended from which of the following class.

    A) JComponent   B) JMenuItem

    C) AbstractButton   D) Jmenu

64) CLR is the.NET equivalent of _____.

    A) Java Virtual Machine

    B) Common Language Runtime

    C) Common Type System

    D) Common Language Specification

65) In Java _____method of Object class is a method that the Garbage Collector always calls just before the deletion/destroying the object which is eligible for Garbage Collection.

A) finally()   B) finalize()

C) final()   D) destructor()

66) In Java _____ of the following class is not instantiated

A) abstract class   B) final class

C) inline class   D) partial class

67) In Java which of the following data type stores longest floating point number?

A) Long   B) Double

C) Float   D) Boolean

68) "One People, One State, One Leader" was the policy of _____.

A) Stalin   B) Hitler

C) Lenin   D) Mussolin

69) In java _____ keyword is used to access members of base class from derived class.

A) Base   B) Super

C) Extends   D) Upper

70) The lifecycle of servlet is managed by _____ .

A) servlet context   B) servlet container

C) http protocol   D) all of the above

71) Which of the following class displays the result of the applet code on the screen?

A) paint()   B) void()

C) show()   D) display()

72) What does sprintf() function do in PHP?

A) It prints the output of program.

B) It prints the output of program converting into string.

C) It sends output to a variable.

D) None of these

73) What is the use of strpos( ) function in PHP?

A) Search for a character/text within a string.

B) Search for a space within a string.

C) Search for a number within a string.

D) None of these

74) The problem is not _____ to one of internal.

A) reduce   B) reducible

C) reliable   D) reduction

75) Are you interested in _____?

A) Physics   B) the Physics

C) a Physics   D) of Physics

76) Nitrogen gas is in abundance _____ the Earth.

    A) in   B) on

    C) above   D) along

77) She is standing _____ her boyfriend.

    A) with   B) by

    C) in   D) for

78) He takes his turn and she takes _____.

    A) her   B) hers

    C) herself   D) himself

79) Name the chemical that makes oceans different from other types of water systems?

    A) Nitrogen   B) Sodium

    C) Helium   D) Neon

80) You can go neither by train _____ by bus.

    A) no   B) nor

    C) or   D) and

81) The departmental store is open _____ eight to seven.

    A) by   B) from

    C) between   D) during

82) I _____ my mobile phone yesterday.

    A)   loss   B)   loose

    C)   lose   D)   lost

83) They could save money if they bought _____ furniture.

    A)   economical   B)   economic

    C)   economize   D)   economics

84) World Blood Donor Day is observed every year on _____ .

    A)   June 14   B)   June 13

    C)   June 15   D)   June 12

85) _____ is known as Sahid-e-Azam?

    A)   Bhagat Singh   B)   Bipin Chandra Pal

    C)   Chandra Shekhar Azad   D)   Sukhdev Thapar

86) What is the name of the Swing class that is used for frames?

    A)   Window   B)   Frame

    C)   Jframe   D)   Swingframe

87) RBI has roped in which player in the public awareness campaign to warn people against digital banking frauds?

    A)   Virat Kohli   B)   Sangeeta Phogat

    C)   Bajrang Punia   D)   Neeraj Chopra

88) Choose the most meaningful sequence for the following words. 1. Job 2. Independence 3. Study 4. Income 5. Exam

   A) 1, 4, 2, 3, 5

   B) 2, 5, 3, 1, 4

   C) 3, 1, 2, 4, 5

   D) 3, 5, 1, 4, 2

89) A watch reads 4.30 if the minute hand points east, in what direction does the hour hand point?

   A) North-west   B) North

   C) North-east   D) South-east

90) India won its first Olympic hockey gold in _____.

   A) 1918   B) 1928

   C) 1938   D) 1948

91) How many times do hands of clock make a right angle with each other between 4 p.m and 10 p.m.

   A) 6   B) 12

   C) 5   D) 11

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

   A) 120 meters   B) 180 meters

   C) 324 meters   D) 150 meters

93) A contract is to be finished in 46 days and 117 men involved in it, each working 8 hours per day. After 33 days, 4/7 of the work is finished, how many additional men may be employed so that it may be completed in time, each man now working 9 hours a day?

A) 85
B) 196
C) 81
D) 123

94) In the following number series, a wrong number is given. Find out that number 8, 18, 40, 86, 178, 370, 752.

A) 18
B) 178
C) 370
D) 40

95) The difference between a two-digit number and the number obtained by interchanging the digits is 27. What is the difference between the digits of the number?

A) 3
B) 6
C) 9
D) 5

96) _____ statement is used to create an empty set in Python.

A) ( )
B) [ ]
C) {}
D) set( )

97) _____ of the following blocks allows you to handle the errors.

A) except block
B) try block
C) finally block
D) none of these

98) _____ is used to define a block of code in Python language.

    A) Key   B) Brackets

    C) Indentation   D) None of these

99) Data for a cookie is stored in _____ in PHP?

    A) Server computer   B) Users computer

    C) ISP   D) Memory

100) In Inheritance concept, _____ members of base class are accessible to derived class members.

    A) static   B) protected

    C) shared   D) private

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Rough Work

Rough Work