Seat
No.

M.Sc. Entrance Examination, May - 2023
COMPUTER SCIENCE
Sub. Code: 58712

Day and Date : Tuesday, 9-05-2023   **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) What is the name of the India's longest suspension bridge built in Leh by Indian Army?
   A) Gagan Bridge   B) Maitri Bridge
   C) Mahatama Bridge   D) Sardar Bridge

2) India's first National Film Museum opens in_____
   A) Delhi   B) Mumbai
   C) Hyderabad   D) Kolkata

3) The boundaries of the plates of the earth's crust are the weak zones known as_____ zones.
   A) Cosmic   B) Seismic
   C) Formic   D) Anaemic

4) Who becomes fastest Indian to reach 100 ODI wickets?
   A) Ajit Agarkar   B) Ravichandran Ashwin
   C) Jasprit Bumrah   D) Mohammed Shami

P.T.O.

5) What is the full form of DRDL?
   A) Differential Research and Documentation Laboratory
   B) Department of Research and Development Laboratory
   C) Defense Research and Development Laboratory
   D) None of these

6) The green plane in the solar system is?
   A) Mars   B) Uranus
   C) Venus   D) Earth

7) The study of Heavenly bodies is Known as_____?
   A) Astrophysics   B) Astronautics
   C) Astrology   D) Astronomy

8) Who invented the 3-D printer?
   A) Nick Holonyak   B) Elias Howe
   C) Chuck Hull   D) Christiaan Huygens

9) The first pico satellite of India is
   A) GSAT-4   B) ANUSAT
   C) INSAT   D) STUDSAT

10) In which city did PM Modi inaugurate india's first water metro?
   A) Pune   B) Kolkata
   C) Kochi   D) Bhubanshwar

11) When is the international Day of Women Judges celebrated every year?
   A) March 11   B) March 10
   C) March 09   D) March 12

12) What is the length of each stump in cricket?

   A) 28 inches   B) 30 inches

   C) 32 inches   D) 34 inches

13) Who has written the book "Two Lives"?

   A) Salman Rushdie   B) Arundhati Roy

   C) Vikram Seth   D) Shiv Khera

14) Fathometer is used to measure _____.

   A) Earthquakes   B) Rainfall

   C) Ocean depth   D) Sound intensity

15) The blue colour of the clear sky is due to_____

   A) Diffraction of light   B) Dispersion of light

   C) Reflection of light   D) Refraction of light

16) QPO, NML, KJI, ____, EDC

   A) HGF   B) CAB

   C) JKM   D) GHD

17) PASTORAL: RURAL

   A) Metropolitan : urban   B) Sleepy : nocturnal

   C) Harvest : autumn   D) Agrarian : benevolent

18) CWE, FQH. RDI, ?

   A) XBZ   B) TGU

   C) MCO   D) FUT

19) Smith said, "Lilly is wife of the grandson of my sister's mother." How is Smith related to Lilly?

A) Father
B) Father-in-law
C) Brother-in-law
D) Grand father

20) 2, 5, 9, 19,37,?

A) 73
B) 75
C) 76
D) 78

21) Paisa: Rupee:: ? : Kilometer

A) Meter
B) Hectometer
C) Quintal
D) Decameter

22) In the following question, choose the correct code form. If ANY = 40, MANY = 53 then MANIAC = ?

A) 41
B) 42
C) 43
D) 44

23) Choose the odd pair of words:

A) Profit -- Loss
B) Virtue-- Vice
C) Seduce -- Attract
D) Wise -- Foolish

24) In the given number series one term is wrong. Find the wrong term.

125, 126, 124, 127, 122, 128

A) 122
B) 124
C) 125
D) 126

25) At what time between 9:13 and 10:12 will the hands of a watch be together?

A) 45 min past 9
B) 49(1/11) min past 9
C) 48 min past 9
D) 47 min past 9

26) CMM, EOO, GQQ, _____ , KUU
   A) GRR   B) GSS
   C) ISS   D) ITT

27) If AIRLINE is written as ENILRIA7, then RAILWAY will be written as:
   A) YAWLIAR7   B) YAWLIAR8
   C) YAWILAR7   D) YAWILAR8

28) The number comes next in the series 12, 36, 109, 329, ____
   A) 900   B) 990
   C) 890   D) None of these

29) If PINK is coded as 1691411, then RED will be coded as:
   A) 1963   B) 1854
   C) 1853   D) 1954

30) Which of the following is the odd one from the given alternatives?
   A) Driving   B) Diving
   C) Swimming   D) Sailing

31) Hypsiphobia: Height :: Hylophobia: ?
   A) Forests   B) Animals
   C) Water   D) All of these

32) The day before yesterday was Saturday. What will be the day after tomorrow?
   A) Thursday   B) Friday
   C) Wednesday   D) Monday

33) Drama: Stage :: Tennis:?
   A) Net   B) Court
   C) Tournament   D) Racket

34) Which of the following set of letters complete the letter series, when sequentially placed at the gaps?

bca____b ____aabc _____a _____ caa

A) ccab B) bcbb

C) acab D) cbab

35) If the word 'LION' is coded as LMGJ. How is 'MILK' written in that code?

A) JKFL B) KLIM

C) KILM D) IJGK

36) A dealer has 1000 kg sugar and he sells a part of it at 8% profit and the rest of it at 18% profit. The overall profit he earns is 14%. What is the quantity which is sold at 18% profit?

A) 250 kg B) 600 kg

C) 620 kg D) 450 kg

37) The present age of Aradhana and Aadrika is in the ratio 3:4. 5 years back, the ratio of their ages was 2:3. What is the present age of Aradhana?

A) 12 years B) 15 years

C) 20 years D) 22 years

38) In one hour, a boat goes 13km/hr in the direction of the stream and 7 km/hr against the direction of the stream. What will be the speed of the boat in still water?

A) 8 km/hr B) 14km/hr

C) 10 km/hr D) 6 km/hr

39) For the given number series, find what will come in place of the question mark (?)
15, 19, 28, ?, 69, 105

A) 44 B) 46

C) 45 D) 48

40) It takes two pipes A and B, running together, to fill a tank in 6 minutes. It takes A 5 minutes less than B to fill the tank, then what will be the time taken by B alone to fill the tank?

A) 10 minutes   B) 15 minutes

C) 20 minutes   D) 8 minutes

41) A man travels from his home to office at 4km/hr and reaches his office 20 min late. If the Speed had been 6km/hr he would have reached 10 min early. Find the distance from his home to office.

A) 8 km   B) 6 km

C) 9 km   D) 12 km

42) To complete a piece of work, Samir takes 6 days and Tanvir takes 8 days alone respectively. Samir and Tanvir took Rs.2400 to do this work. When Amir joined them, the work was done in 3 days. What amount was paid to Amir?

A) Rs. 300   B) Rs. 400

C) Rs. 800   D) Rs. 100

43) A train running at the speed of 56 km/hr crosses a pole in 18 seconds. What is the length of the train?

A) 280m   B) 250m

C) 200m   D) 325m

44) What is the difference in the place value of 5 in the numeral 754853?

A) 49500   B) 49950

C) 45000   D) 49940

45) A mother is twice as old as her son. If 20 years ago, the age of the mother was 10 times the age of the son, what is the present age of the mother?

A) 45 years   B) 43 years

C) 40 years   D) 38 years

46) If January 1, 1996, was Monday, what day of the week was January 1, 1997?

    A)   Wednesday   B)   Friday

    C)   Thursday   D)   Sunday

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

    A)   24   B)   23

    C)   22   D)   21

48) 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 l00m high, find the distance between the two ships.

    A)   157.80 m   B)   155.80m

    C)   159.80 m   D)   161.80 m

49) A shopkeeper sold an article for Rs. 2500. If the cost price of the article is 2000, find the profit percent.

    A)   29%   B)   23%

    C)   25%   D)   27%

50) A train moving at speed of 80 km/hr crosses a pole in 7 seconds. Find the length of the train.

    A)   150 m   B)   175 m

    C)   170 m   D)   165 m

51) A: B: C is in the ratio of 3: 2: 5. How much money will C get out of Rs 1260?

    A)   252   B)   125

    C)   503   D)   none of these

52) In what ways the letters of the word "RUMOUR" can be arranged?

    A)   180   B)   150

    C)   230   D)   200

53) A box contains 2 red balls, 3 black balls, and 4 white balls. Find the number of ways by which 3 balls can be drawn from the box in which at least 1 black ball should be present.
    A) 64   B) 48
    C) 32   D) 96

54) A, B and C are partners. They have invested Rs.35000, Rs. 25000 and 10,000 respectively for the same period. If the total profit is Rs. 18000, find the share of A.
    A) Rs. 9000   B) Rs. 9500
    C) Rs. 8000   D) Rs. 8500

55) The angles of elevation of the top of a tower from the top and bottom of a tree of height 15m are 30° and 60° respectively. Find the height of the tower?
    A) 22.5 m   B) 7.5 m
    C) 11.5 m   D) 20 m

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 favourite 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) _____ protocol is used for requesting a web page in ASP.NET from the Web Server.

    A) HTTP   B) TCP

    C) SMTP   D) None of these

77) _____ is/are the navigation controls used in ASP.NET.

    A) SiteMapPath   B) Menu

    C) Tree View   D) All of these

78) _____ is not the way to maintain state in ASP.NET.

    A) View state   B) Cookies

    C) Hidden fields   D) Request object

79) _____ type of validation is used to check an email address entered by the user is matches to email pattern.

    A) Regular Expression Validator B) Range Validator

    C) Custom Validator   D) Validation Summary

80) _____ is the first event of the ASP.NET page, when the user requests a web page.

A) Pre Load   B) Load

C) Prelnit   D) Init

81) Which of the following is the correct extension of the Python file?

A) .python   B) .p1

C) .py   D) .p

82) Which of the following character is used to give single-line comments in Python?

A) //   B) #

C) !   D) /*

83) Who developed Python Programming Language?

A) Wick van Rossum   B) Rasmus Lerdorf

C) Guido van Rossum   D) Niene Stom

84) Which of the following is not a core data type in Python programming?

A) Tuples   B) Lists

C) Class   D) Dictionary

85) In which language is Python written?

A) C++   B) C

C) Java   D) None of these

86) C# is a programming language developed by _____

A) Oracle   B) Microsoft

C) GNU project   D) Google

87) C# programming language is used to develop_____

    A)   Web apps   B)   Desktop apps

    C)   Mobile apps   D)   All of these

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

    A)   Anders Hejlsberg   B)   Douglas Crockford

    C)   Rasmus Lerdorf   D)   Brendan Eich

89) CLR stands for _____

    A)   Critical Language Runtime   B)   Common Language Rules

    C)   Common Language Runtime   D)   Combined Language Runtime

90) In C#, a single-line comment starts with_____

    A)   Two forward slashes (//)   B)   Two backward slashes (\\)

    C)   a hash character (#)   D)   a dollar character ($)

91) PHP statement end with a_____

    A)   semicolon   B)   colon

    C)   dot   D)   comma

92) How many variable scopes are there in PHP:

    A)   1   B)   2

    C)   3   D)   4

93) A variable declared outside a function has a ____ scope.

    A)   Local   B)   Global

    C)   Private   D)   None of these

94) Which data type is not supported by PHP?

    A)   Integer   B)   Complex

    C)   Float   D)   String

95) PHP stands for _____

    A)   Hypertext Preprocessor   B)   Pretext Hypertext Preprocessor

    C)   Personal Home Processor   D)   None of these

96) _____ is used to find and fix bugs in the Java programs.

    A)   JVM   B)   JRE

    C)   JDK   D)   JDB

97) Which of the following is an immediate subclass of the Panel class?

    A)   Applet class   B)   Window class

    C)   Frame class   D)   Dialog class

98) Which keyword is used for accessing the features of a package?

    A)   Package   B)   Import

    C)   Extends   D)   Export

99) Identify the incorrect Java features.

    A)   Object oriented   B)   Use of pointers

    C)   Dynamic   D)   All of these

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

    A)   ArrayList   B)   Abstract class

    C)   Object class   D)   String

● ● ●

Rough Work