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P.G. Entrance Examination, July - 2023**M.Sc. COMPUTER SCIENCE****Sub. Code : 58712****Day and Date : Tuesday, 18 - 07 - 2023****Total Marks : 100****Time : 03.30 p.m. to 05.00 p.m.**

- Instructions :**
- 1) All questions are compulsory.
 - 2) Each question carries one 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.

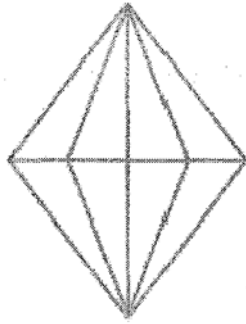
- 1) Which of the three banks will be merged with the other two to create India's third-largest bank?
(A) Punjab National Bank (B) Indian Bank
(C) Bank of Baroda (D) Dena Bank
- 2) The green planet in the solar system is _____.
(A) Mars (B) Uranus
(C) Venus (D) Earth
- 3) The father of Indian missile technology is _____.
(A) Dr. Homi Bhabha (B) Dr. Chidambaram
(C) Dr. A.P.J. Abdul Kalam (D) Dr. U. R. Rao
- 4) Which of the following personalities gave 'The Laws of Heredity'?
(A) Robert Hook (B) G.J. Mendel
(C) Charles Darwin (D) William Harvey

P.T.O.

- 5) Name the person who was also known as Deshbandhu.
(A) S. Radhakrishnan (B) G.K. Gokhale
(C) Chittaranjan Das (D) Madan Mohan Malviya
- 6) Geet Govind is a famous creation of _____.
(A) Bana Bhatt (B) Kalidas
(C) Jayadev (D) Bharat Muni
- 7) World Trade Organization came into existence in _____.
(A) 1992 (B) 1993
(C) 1994 (D) 1995
- 8) Panchayati Raj comes under _____.
(A) Residual list (B) Concurrent list
(C) State list (D) Union list
- 9) Panini was _____.
(A) a Greek philosopher
(B) an Indian astronomer and famous mathematician
(C) a Sanskrit grammarian of Vedic times
(D) great poet of ancient times
- 10) Which of the following is the largest and the deepest ocean in the world?
(A) The Arctic (B) Atlantic
(C) Pacific (D) Indian
- 11) Who was the first Recipient of the Aadhaar Card?
(A) Amrita Patil (B) Smita Roy
(C) Rajiv Singh (D) Ranjana Sonawane

- 12)** Who is known as the Flying Sikh of India?
- (A) Rajiv Singh (B) Ritesh Chaudhari
(C) Sangram Chadda (D) Milkha Singh
- 13)** Who designed the Indian Rupee Symbol?
- (A) Uday Kumar Dharmalingam (B) Ritesh Chaudhari
(C) Suresh Udaklinga (D) Milkha Singh
- 14)** Which is the Smallest Country in Asia?
- (A) Sri Lanka (B) Nepal
(C) The Maldives (D) Pakistan
- 15)** The Indian to beat the computers in mathematical wizardry is _____.
- (A) Ramanujan (B) Rina Panigrahi
(C) Raja Ramanna (D) Shakunthala Devi
- 16)** Find the next number in the series 10, 7, 11, 30, 117,?
- (A) 538 (B) 528
(C) 583 (D) 582
- 17)** A man walks 4 km towards East; turns right and walks 6 km and turns another right and walks 4 km. He then turns right and walks 6 km; takes a turn of 8 km towards South; turns left and walks 3 km again turns right and walks 1 km; then finally turns right and walks 3 km. How far is he from the starting point?
- (A) 11 km (B) 12 km
(C) 9 km (D) 8 km

18) How many triangles are there in the given figure?



- (A) 13 (B) 32
(C) 21 (D) 24

19) X introduces Y saying, “He is the husband of the grand daughter of the father of my father”. How is Y related to X?

- (A) brother (B) uncle
(C) co-brother (D) brother-in-law

20) If PIPE is written as 169165, then what is the digit of SWAN?

- (A) 5 (B) 6
(C) 4 (D) 3

21) Three of the following four words are alike in a certain way and one is different. Pick the odd one out.

- (A) Hendecagon (B) Hexagon
(C) Heptagon (D) Pentagon

22) Find the missing term:

3	2	2
6	20	4
12	25	64
6	10	?

- (A) 6 (B) 8
(C) 10 (D) 12

- 23)** 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
- 24)** Odometer : mileage :: compass :
- (A) speed (B) hiking
(C) needle (D) direction
- 25)** SCD, TEF, UGH, _____, WKL
- (A) CMN (B) UJI
(C) VIJ (D) IJT
- 26)** If PINK is coded as 1691411, then RED will be coded as _____.
- (A) 1963 (B) 1854
(C) 1853 (D) 1954
- 27)** Marathon : race :: hibernation :
- (A) winter (B) summer
(C) sleep (D) bear
- 28)** The day before yesterday was Saturday. What will be the day after tomorrow?
- (A) Thursday (B) Friday
(C) Wednesday (D) Monday

29) Drama : Stage :: Tennis : ?

- (A) Net (B) Court
(C) Tournament (D) Racket

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

_ab_b_aba _ _ abab

- (A) abbab (B) abbaa
(C) abaab (D) aaaba

31) Read the following information carefully and answer the question below:

There are six children playing football, namely, Z, Y, X, W, V and U.

- i) Z and V are brothers.
ii) U is the sister of V.
iii) X is the only son of Z's uncle.
iv) Y and W are daughters of the brother of X's father.

How many male players are there?

- (A) 3 (B) 4
(C) 5 (D) 6

32) If 'blue' means 'green', 'green' means 'yellow', 'yellow' means 'orange', 'orange' means 'black', 'black' means 'white', 'white' means 'red', 'red' means 'pink', 'pink' means 'brown', 'brown' means 'grey', then what is the color of human blood?

- (A) Black (B) Red
(C) White (D) Orange

33) A, B and C are intelligent, A, D and E are laborious and D, C and E are honest and A, B, and E are ambitious. Which of the following are not honest?

- (A) A and B (B) C and A
(C) A and D (D) C, A and B

- 40)** Amit covers a distance at a speed of 24 km/hr in 6 min. If he wants to cover the same distance in 8 min, what should be his speed?
- (A) 18 km/hr (B) 21 km/hr
(C) 30 km/hr (D) 15 km/hr
- 41)** Two pipes M and N can fill a tank in 22 hours and 33 hours respectively. In how much time will the tank be full, if both the pipes are opened simultaneously?
- (A) 18 hours (B) $19/22$ hours
(C) $1(1/11)$ hours (D) $13(1/5)$ hours
- 42)** The average age of three boys is 15 years. If their ages are in ratio 3:5:7, the age of the youngest boy is _____.
- (A) 21 years (B) 18 years
(C) 15 years (D) 9 years
- 43)** Average of 80 numbers are 42. When 5 more numbers are included, the average of 85 numbers become 45. Find the average of 5 numbers.
- (A) 82 (B) 89
(C) 93 (D) 98
- 44)** Find the smallest number of five digits exactly divisible by 16, 24, 36 and 54.
- (A) 10244 (B) 10296
(C) 10368 (D) 10291
- 45)** Ram is three times as old as his Sam. 2 years ago he was five times as old as Sam. What is the present age of Ram?
- (A) 12 years (B) 14 years
(C) 18 years (D) 24 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) A 60 liter mixture of milk and water contains 10% water. How much water must be added to make water 20% in the mixture?
(A) 8 liters (B) 7.5 liters
(C) 7 liters (D) 6.5 liters
- 49) What is the probability of getting an even number when a dice is rolled?
(A) $\frac{1}{5}$ (B) $\frac{1}{2}$
(C) $\frac{1}{3}$ (D) $\frac{1}{4}$
- 50) Find the missing term of the given expression:
 $18.834 + 818.34 - ? = 618.43$
(A) 217.644 (B) 218.744
(C) 217.744 (D) 217.844
- 51) What is the market price of a 9% share when a person gets 180 by investing Rs. 4000?
(A) 150 (B) 200
(C) 250 (D) 300

- 52)** 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) 90 days
- 53)** What is the difference in the place value of 5 in the numeral 754853?
- (A) 49500 (B) 49950
(C) 45000 (D) 49940
- 54)** P, Q and R invested Rs. 42000, Rs. 60000 and Rs. 80000 respectively to start a business. At the end of 4 years, they earned a profit of Rs. 18200. What will be Q's share in profit?
- (A) Rs. 5000 (B) Rs. 6000
(C) Rs. 6500 (D) Rs. 7000
- 55)** How many permutations of the letters of the word APPLE are there?
- (A) 600 (B) 120
(C) 240 (D) 60
- 56)** The Chairman is ill and we'll have to _____ the meeting for a few days.
- (A) Put on (B) Put of
(C) Put away (D) Put off
- 57)** The students subject to _____ like a child by their teachers.
- (A) be (B) being
(C) become (D) became

- 58)** By the time he was thirty, he _____ many tournaments.
(A) won (B) had won
(C) has had won (D) was winning
- 59)** It was raining heavy yesterday, so they _____ out.
(A) did not go (B) did not went
(C) would not go (D) would not gone
- 60)** If she was free, she _____ to you.
(A) talked (B) can talk
(C) could talked (D) would talk
- 61)** If you work really hard, you _____ good score in the upcoming examination.
(A) will get (B) will got
(C) would get (D) would got
- 62)** When she was in the university, she _____ wake up early in the morning.
(A) should (B) would
(C) will (D) would have
- 63)** I was watching a TV program, when he _____ in.
(A) walk (B) walks
(C) walked (D) was walking

- 64)** If you have time, you _____ the nature museum.
(A) should visit (B) should visited
(C) have to visit (D) would visit
- 65)** She _____ the driving test to get a license.
(A) should pass (B) should has passed
(C) has to pass (D) have to pass
- 66)** He always _____ to prove that the earth revolves round the sun.
(A) tried (B) tries
(C) was trying (D) is trying
- 67)** The king _____ rebel.
(A) excused (B) forgave
(C) pardoned (D) none of these
- 68)** There are _____ views on the issue of giving bonus to the employees.
(A) independent (B) divergent
(C) modest (D) adverse
- 69)** He has _____ people visiting him at his house because he fears it will cause discomfort to neighbours.
(A) curtailed (B) requested
(C) stopped (D) warned

70) The _____ of private limited companies is in the hands of its directors.

- (A) managers (B) administrators
(C) management (D) department

71) The Christmas tree was _____ with stars and other decorative items.

- (A) adorned (B) endowed
(C) encased (D) enticed

72) Many companies ask their employees to sign a _____ of secrecy.

- (A) agreement (B) bond
(C) bondage (D) espionage

73) Some of the luggage _____ not yet arrived.

- (A) has (B) have
(C) is (D) are

74) His boss _____ an explanation of his conduct with his colleagues.

- (A) called up (B) called upon
(C) called for (D) called off

- 75) We _____ start now to work for our examination.
- (A) had better (B) better
(C) has better (D) are better
- 76) _____ option is used to create a checkbox in HTML Form.
- (A) <input type="text">
(B) <input type="textarea">
(C) <input type="checkbox">
(D) <input type="button">
- 77) In ASP.NET _____ is used to redirect to another page.
- (A) Redirect() (B) Response.Redirect()
(C) Next() (D) None of these
- 78) Global.asax is used in ASP.NET _____.
- (A) to declare global variables (B) to declare local variables
(C) it is has no use in website (D) none of these
- 79) _____ ADO.NET class provide Disconnected architecture in ASP.NET.
- (A) DataReader (B) DataSet
(C) Command (D) None of these

- 80)** Which term is used for pages that depend on the Master page?
- (A) Content Pages (B) Master Pages
(C) Web Pages (D) None of the above
- 81)** Which of the following is used to define a block of code in Python language?
- (A) Indentation (B) Key
(C) Brackets (D) All of these
- 82)** Which type of Programming does Python support?
- (A) object-oriented programming
(B) structured programming
(C) functional programming
(D) all of these
- 83)** Which of the following is the truncation division operator in Python?
- (A) | (B) //
(C) / (D) %
- 84)** Guido van Rossum developed _____ programming language.
- (A) Python (B) Java
(C) LISP (D) PROLOG

85) Which of the following is not the part of python programming?

- (A) Pointers
- (B) Loops
- (C) Dynamic typing
- (D) None of these

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) Which data type is used to store text value in C#?

- (A) text
- (B) txt
- (C) string
- (D) str

88) In C#, a _____ is called a method.

- (A) function
- (B) subroutine
- (C) procedure
- (D) managed code

89) Arrays in C# are _____ objects.

- (A) reference
- (B) logical
- (C) value
- (D) arithmetic

90) C# does not support _____.

- (A) abstraction
- (B) polymorphism
- (C) multiple inheritance
- (D) inheritance

91) Who is the father of PHP?

- (A) Drek Kolkevi
- (B) Rasmus Lerdorf
- (C) Willam Makepiece
- (D) List Barely

92) Which is/are statement(s) true about PHP?

- (A) It is an open-source scripting language
- (B) PHP scripts execute on the server
- (C) It is used for developing dynamic & interactive websites
- (D) All of these

93) Which statement is commonly used for PHP output?

- (A) write
- (B) php.write
- (C) log
- (D) echo

94) The identical operator in PHP is _____.

- (A) =
- (B) ==
- (C) ===
- (D) none of these

- 95)** In PHP, the variable name starts with _____.
- (A) # (B) &
(C) \$ (D) @
- 96)** JDB is used _____ in the Java programs.
- (A) to find bugs (B) to fix bugs
(C) to find and fix bugs (D) none of these
- 97)** In which process, a local variable has the same name as one of the instance variables?
- (A) Serialization (B) Variable shadowing
(C) Abstraction (D) Multi-threading
- 98)** In which memory a String is stored, when we create a string using new operator?
- (A) Stack (B) String memory
(C) Heap memory (D) Random storage space
- 99)** What is meant by the classes and objects that depends on each other?
- (A) Tight Coupling (B) Cohesion
(C) Loose Coupling (D) None of these
- 100)** Which of the following is a mutable class in java?
- (A) java.lang.String (B) java.lang.Byte
(C) java.lang.Short (D) java.lang.StringBuilder



Rough Work

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