P. G. Entrance Examination, 2025
M.Sc. (Computer Science),
Subject Code : 58712

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Day and Date : Wednesday, 14-05-2025   **Total Marks : 100**
Time : 1.00 p.m. to 2.30 p.m.

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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.

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Q1) Which country is set to host the 2025 FIFA Club World Cup?

    a) United States   b) Morocco

    c) Qatar   d) Saudi Arabia

Q2) What is the name of the artificial intelligence model released by OpenAl in early 2025 that is known for its advanced multimodal capabilities?

    a) Gemini Ultra   b) Sora

    c) GPT-5   d) Claude

Q3) Which major international agreement focused on biodiversity conservation is expected to have its next significant conference in late 2025?

    a) Paris Agreement

    b) Kyoto Protocol

    c) Convention on Biological Diversity

    d) Montreal Protocol

Q4) Which technology is rapidly gaining traction in 2025 for its potential in creating immersive digital experiences beyond virtual reality?

a) Blockchain   b) Quantum Computing

c) Augmented Reality   d) Brain-Computer Interfaces

Q5) Which major space agency is planning to launch a significant mission to explore Jupiter's moon Europa in 2025, focused on the search for potential life?

a) NASA   b) ESA

c) Roscosmos   d) ISRO

Q6) What is the projected global population as estimated by the United Nations for mid-2025?

a) 7 billion   b) 8 billion

c) 9 billion   d) 10 billion

Q7) Which major sporting event, besides the usual annual championships, is scheduled to be held in Asia in the summer of 2025?

a) Summer Olympics   b) FIFA World Cup

c) Asian Games   d) Commonwealth Games

Q8) What is India's rank in the Global GDP rankings (2025)?

a) 3rd   b) 5th

c) 7th   d) 10th

Q9) Which state has the largest coastline in India?

a) Tamil Nadu   b) Gujarat

c) Andhra Pradesh   d) Kerala

Q10) The "Valley of Flowers" National Park is located in:

    a) Uttarakhand

    b) Himachal Pradesh

    c) Jammu & Kashmir

    d) Sikkim

Q11) Which Indian mission aims to send humans to space by 2025?

    a) Chandrayaan-4   b) Aditya-L1

    c) Gaganyaan   d) Mangalyaan-2

Q12) Which Indian athlete won a gold medal in the 2024 Paris Olympics?

    a) Neeraj Chopra   b) PV Sindhu

    c) Mirabai Chanu   d) Ravi Dahiya

Q13) Which Indian city was ranked as the "Cleanest City" in Swachh Survekshan 2025?

    a) Indore   b) Surat

    c) Navi Mumbai   d) Chandigarh

Q14) India's first quantum computer was developed by:

    a) ISRO   b) DRDO

    c) IIT-Madras   d) Tata Group

Q15) Which country was added to BRICS in 2025?

    a) Saudi Arabia

    b) Argentina

    c) Ethiopia

    d) Indonesia

Q16) Statement 1: Mara runs faster than Gail.

Statement 2: Lily runs faster than Mara.

Statement 3: Gail runs faster than Lily.

If the first two statements are true, the third statement is

a) True   b) False

c) Uncertain   d) None of above

Q17) **Choose the odd pair**

a) Volume: Liter   b) Time: Second

c) Length: Meter   d) Pressure: Barometer

Q18) **Find out the odd one.**

a) hendecagon   b) hexagon

c) heptagon   d) pentagon

Q19) If a rectangle has a length of 8 units and a width of 4 units, what is its perimeter?

a) 12 units   b) 16 units

c) 24 units   d) 32 units

Q20) Look at this series: F2, ..., D8, C16, B32, What number should fill the blank?

a) A16   b) G4

c) E4   d) E3

Q21) Statement: "If it rains, then the ground will be wet. The ground is wet. Therefore, it rained." This argument is an example of:

a) Circular reasoning.   b) Inductive reasoning.

c) Deductive reasoning.   d) Fallacy of composition.

Q22) Statements: A school has 500 students. 50% of them are boys.

Conclusions:

1) The school has 250 girls.

II) Boys are the majority in the school.

a) Only conclusion I follows.   b) Only conclusion II follows,

c) Both I and II follows..   d) None of above

Q23) How many such pair of letters are there in the word 'HISTORICAL' which have as many letters between them in the word as they have between them in the English alphabet?

a) 7   b) 4

c) 6   d) 8

Q24) In a row of students, John is 8th from the left end, and Mary is 12th from the right end.

Calculate the total number of students in the row.

a) 18   b) 20

c) 19   d) 21

Q25) If 72 x 96 = 6927, 58 x 87 = 7885, then 79 x 86 = ?

a) 7689   b) 8976

c) 6897   d) 6978

Q26) In a coded language, "pit na lo" means "red apple" and "lo pa re" means "juicy fruit." What does "re ki" stand for in the same coded language?

a) apple red   b) fruit juicy

c) juicy red   d) red fruit

Q27) Which word does not belong with the others?

    a) Wing   b) Fin

    c) Beak   d) Rudder

Q28) Choose the word which is not similar to the other words in the group

    a) Peas   b) Cabbage

    c) Spinach   d) Tomato

Q29) ELFA, GLHA, ILJA, ..., MLNA

    a) OLPA   b) KLMA

    c) LLMA   d) KLLA

Q30) In a certain code "564" means "study very hard", "736" means "hard work pays" and "423" means "study and work". Which of the following is the code for "work"?

    a) 5   b) 3

    c) 6   d) 4

Q31) Statement 1: The government has imposed a fine on people who litter in public places.

Statement 2: The cleanliness of public places has improved significantly in the recent past.

    a) Statement I is the cause and statement II is its effect

    b) Statement II is the cause and statement I is its effect

    c) Both the statements I and II are independent causes

    d) Both the statements I and II are effects of independent causes

Q32) One morning after sunrise, Nandita and Ravi were sitting in a lawn with their backs towards each other. Nandita's shadow fell exactly towards her left-hand side. Which direction was Ravi facing?

a) East b) West

c) North d) South

Q.33) In a certain code "CODE" is written as "DPEF". How is "DEFENCE" is written in that code?

a) KWMCJFL. b) ELDFSAP

c) EFGFODF d) HRAOSCV

Q.34) In the following questions, select the related word pair from the given alternatives:

Tuberculosis: Lungs :: Typhoid: ?

a) Liver b) Intestine

c) Lungs d) Brains

Q.35) Assertion (A): James Watt invented the steam engine..

Reason (R): It was invented to pump out the water from the flooded mines.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true, but R is not the correct explanation of A.

c) A is true, but R is false

d) A is false, but R is true

Q36. Which of the following is a prime number?

a) 517 b) 559

c) 571 d) 533

Q37. Find the sum of first 90 even natural numbers.

    a) 8180   b) 8190

    c) 8100   d) 8110

Q38. A number when divided by 91 leaves a remainder 65. If the same number is divided by 13, find the remainder.

    a) 7   b) 0

    c) 5   d) 12

Q39. A man travelled 30% of his journey at a speed of 85 kmph and the rest of his journey at a speed of 33 kmph. Find his average speed throughout the journey.

    a) 46.6 kmph   b) 48.6 kmph

    c) 42.6 kmph   d) 44.6 kmph

Q40. Which of the following fraction is greater than 1/2 and less than 5/9?

    a) 2/3   b) 5/8

    c) 4/7   d) 6/11

Q41. The age of 5 people are in proportion 2:3:4:10:11. If their average age is 18, find the average age of the eldest of them.

    a) 22   b) 11

    c) 44   d) 33

Q42. There are 40 animals in a zoo and per animal 20 packets of milk is required. One pack of milk contains 200 ml of milk, and milk costs 46 rupees per litre. If the employees of the zoo fulfil only 80% of the animal's intake of milk what will be the expenditure of the zoo?

    a) 5469   b) 5766

    c) 5796   d) 5888

Q43. In a group of 10 girls 5 have an average height of 5.2 fect. Rest of the 5 girls have an average height of 1.7 metres. Find the average height of the group in fect, (1 m = 3.281 feet).

a) 5.3   b) 5.4

c) 5.1   d) 5.2

Q44. P is thrice as old as Q. The difference between the ages of P and Q is a multiple of 9. Find the minimum possible age of P, if it is known that Q's age is an odd prime number.

a) 12 years   b) 11 years

c) 10 years   d) 9 years

Q45. A boy agrees to work at the rate of one rupee on the first day, two rupees on the second day, and four rupees on third day and so on. How much will the boy get if he started working on the 1 of February and finishes on the 20th of February?

a) 2^{20} b) $2^{20}-1$

c) $2^{19}-1$ d) 2^{19}

Q.46. Find 112% of a number if 20% of the number is 120.

a) 692   b) 662

c) 652   d) 672

Q.47. The purchase price of an article is 20% less than the profit made. Find the profit if the selling price is 360 rupees,

a) 180 rupees   b) 240 rupees

c) 200 rupees   d) 160 rupees

Q.48. There are a total of 1236 students in a school. If the boy to girl ratio is 1:2, find the difference between number of girls and boys.

a) 412   b) 824

c) 241   d) 214

Q.49. Two friends Smita and Sheetal started a company with 20000 and 30000, respectively. If there was a profit of 12995 rupees at the end of the year find their monthly profit of Smita.

a) 491.8 rupees   b) 431.16 rupees

c) 1082.91 rupees   d) 649.75 rupees

Q.50. 3 pipes A, B and C can fill a tank in 50 minutes, 120 minutes, and 60 minutes, respectively. If all the pipes are opened together, how much time is required to fill 27% of the tank?

a) 10 minutes   b) 2 minutes

c) 4 minutes   d) 6 minutes

Q.51. The speed of a train is 120 kmph and the length of the train is 240 m. find the time it will take to cross a pole.

a) 9.6 seconds   b) 7.2 seconds

c) 4.8 seconds   d) 2.4 seconds

Q.52. A man invested x rupees for 7.7 years at a rate of 13.3% simple interest. If the amount he received after 7.7 years was 23,68,197 rupees, find the amount he invested.

a) 11,70,000 rupees   b) 11,45,000 rupees

c) 12,70,000 rupees   d) 12,45,000 rupees

Q.53. Today is Wednesday. After 81 days, what will be the day?

    a) Thursday   b) Tuesday

    c) Sunday   d) Saturday

Q.54. In how many ways we can select 5 members from a group of 9 people?

    a) 120   b) 360

    c) 720   d) 126

Q55. If one-third of one-fourth of a number is 15, then three-tenth of that number is.....

    a) 35   b) 36

    c) 45   d) 54

Q.56) I think he took the criticism ....heart?

    a) to   b) in

    c) about   d) of

Q.57) They hate it when their football team ....

    a) loses   b) looses

    c) lost   d) losing

Q.58) Even if ....she them, they wouldn't have come.

    a) asked   b) had asked

    c) would ask   d) would have asked

Q.59) Yesterday she got a call from her old friend, and the friend .....her the whole story.

    a) tell   b) tells

    c) told   d) has been telling

Q.60) The number of friends and family members at the party ....amazing.

    a) was   b) were

    c) had   d) have had

Q.61) They have all been friends' .... their first match as a team.

    a) since   b) for

    c) from   d) during

Q.62) She took lessons .... how to swim.

    a) learn   b) for learning

    c) to learn   d) learning

Q.63) We are planning .... out to dinner tonight.

    a) taking our guests

    b) guests to take

    c) guests taking

    d) to take our guests

Q.64) For good health, she .... bed earlier.

    a) should go   b) should go to

    c) should goes   d) should goes to

Q.65) It is our problem, not ....

    a) their   b) theirs

    c) there   d) there's

066) As there were no buses, she ....home last night.

    a) has to walk   b) has to walked

    c) had to walk   d) had to walked

Q67) I saw a .... of cows in the field.

    a) Group   b) herd

    c) swarm   d) flock

Q68) Rajeev failed in the examination because none of his answers were ....

to the questions asked.

a) allusive   b) revealing

c) pertinent   d) referential

Q69) Man who has committed such an .... crime must get the most severe

punishment.

a) injurious   b) unchritable

c) unworhty   d) abominable

Q70) This is a good .... for a picnic.

a) plot   b) spot

c) scene   d) landscape

Q71) Ram the prince of Ayodhya .... his siblings.

a) adorned   b) adored

c) vitiated   d) endangered

Q72) A wise person is one who learns from his ....

a) errors   b) mistakes

c) falsities   d) lies

Q73) I wonder whether I........ ever see him again.

a) shall   b) will

c) should   d) would

Q74) The dog has been .... by the car.

a) run out   b) run over

c) run into   d) run for

Q75) .... you apologize I shall punish you.

    a) until   b) unless

    c) till   d) None of these

Q76. What is API?

    a) Application Programming Interchange

    b) Application Programming Interaction

    c) Application Programming Interface

    d) None of these

Q77. The advantages of advanced java are ....

    a) It provides the concept of client-server architecture

    b) It provides various services of API and protocols.

    c) There are many web application servers such as Apache Tomcat and glassfish

    d) All of these

Q78. RMI stands for

    a) Remote Memory Interface   b) Remote Method Invocation

    c) Random Method Invocation   d) None of these

Q79. Identify the method which is used to start a server thread.

    a) start thread()   b) run()

    c) runthread()   d) start()

Q80. Which is responsible for getting a connection to the database?

    a) Connection   b) Statement

    c) ResultSet   d) Driver

Q81. Which of the following is not a Java keyword?

    a) class   b) interface

    c) extends   d) implement

Q82. What is the size of an int data type in Java?

    a) 8-bit   b) 16-bit

    c) 32-bit   d) 64-bit

Q83. Which of the following is true about Java?

    a) Java supports multiple inheritance using classes

    b) Java is a platform-dependent language

    c) Java uses a compiler and an interpreter

    d) Java does not support multithreading

Q84. Which of the following statements about Java memory management is false?

    a) Java uses a garbage collector to manage memory

    b) Objects are explicitly deleted using the delete keyword

    c) Unreachable objects are automatically garbage collected

    d) Stack memory is used for method calls and local variables

Q85. Who invented Java Programming?

    a) Guido van Rossum   b) James Gosling.

    c) Dennis Ritchie   d) Jemy Thomson

Q86. C# is a programming language, developed by ....

    a) Oracle   b) Microsoft

    c) GNU project   d) Google

Q87. Net CLR is equivalent to ....

a) Common Type System

b) Common Language Specification

c) Common Language Runtime

d) Java Virtual Machine

Q88. Which is not a type of constructor in C#?

a) Static Constructor   b) Private Constructor

c) Body Constructor   d) Parameterized Constructor

Q89. In C#, the objects created using new operator are stored in ....

a) Cache Memory   b) Stack Memory

c) Heap Memory   d) None of the above

Q90. Which file contains the Application_Start event?

a) Global.asax   b) Web.config

c) Local.asax   d) None

Q91. What is Linux primarily known as?

a) A web server

b) An operating system

c) A programming language

d) A hardware platform

Q92. Who is the creator of the Linux kernel?

a) Linus Torvalds   b) Richard Stallman

c) Bill Gates   d) Steve Jobs

Q. 93. Which of the following statements is true about Linux?

a) It is a proprietary operating system

b) It is only used on servers

c) It is an open-source operating system

d) It does not support multitasking

Q94. What is the default shell for most Linux distributions?

a) tesh   b) bash

c) sh   d) zsh

Q95. The core of Linux operating system is ....

a) kernel   b) terminal.

c) command   d) script

Q96. Which of the following is a valid variable name in Python?

a) 2name   b) name2

c) name-2   d) @name

Q97. Which of the following data types is immutable in Python?

a) List   b) Set

c) Dictionary   d) Tuple

Q98. What is method overloading in Python?

a) Defining multiple methods with the same name but different parameters

b) Defining multiple classes with the same name

c) Inheriting from more than one class

d) Defining multiple constructors

Q99. Who developed Python Programming Language?

    a) Wick van Rossum   b) Rasmus Lerdorf

    c) Guido van Rossum   d) Niene Stom

Q100. Which of the following character is used to give single-line comments in Python?

    a) //

    b) #

    c) !

    d) / *

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