

Seat No.	
-------------	--

ENT-62

Total No. of Pages : 21

Entrance Examination, 2026
M. Sc (Computer Science)
Subject Code: 58712

Day and Date : Tuesday, 21-07-2026

Total Marks : 100

Time : 04.30 p.m. to 06.00 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.

Q1) In 2023, which company became the first to reach a \$3 trillion market cap driven by AI chip demand?

- | | |
|--------------|-------------|
| a) Apple | b) NVIDIA |
| c) Microsoft | d) Alphabet |

Q2) Which version of the Python programming language was the stable release during most of late 2024 and early 2025?

- | | |
|---------|--------------|
| a) 3.10 | b) 3.12/3.13 |
| c) 4.0 | d) 2.7 |

Q3) What is the name of India's first AI unicorn startup, founded by Bhavish Aggarwal (2023-24)?

- | | |
|--------------|--------------|
| a) Sarvam AI | b) Krutrim |
| c) Ola Mind | d) BharatGPT |

Q4) Which tech giant launched "Gemini" in late 2023 to compete with GPT-4?

- a) Meta
- b) Amazon
- c) Google
- d) IBM

Q5) Which technology is primarily used in "Apple Intelligence," launched for devices in late 2024?

- a) Cloud-only AI
- b) On-device Generative AI
- c) Metaverse
- d) NFT integration

Q6) Which country became a global hub for "Semiconductor Mission" fabrication plants starting in 2024?

- a) Brazil
- b) India
- c) Egypt
- d) Australia

Q7) What is "Grok," launched by x AI in late 2023?

- a) A search engine
- b) A conversational AI with real-time access to X data
- c) A new programming language
- d) A cloud storage platform

Q8) In 2025, "Deepfakes" are primarily regulated under which Indian law framework?

- a) Motor Vehicles Act
- b) IT Act & upcoming Digital India Act
- c) Companies Act
- d) Finance Act

Q9) Which Indian city is often referred to as the "AI Capital of India" as of 2025?

- a) Mumbai
- b) Bengaluru
- c) Hyderabad
- d) Pune

Q10) What does "DPU" stand for in modern data center architecture (popularized in 2024)?

- a) Digital Power Unit
- b) Data Processing Unit
- c) Dual Processing Utility
- d) Direct Program Upgrade

Q11) Which satellite internet service sought licensing in India in 2024-25?

- a) One Web
- b) Kuiper
- c) Starlink
- d) Viasat

Q12) In 2025, which AI coding assistant became the industry standard for "Agentic" workflows?

- a) Notepad++
- b) GitHub Copilot
- c) Sublime Text
- d) Vim

Q13) What is "Post-Quantum Cryptography" (PQC), a major focus in 2025?

- a) Encryption that can survive quantum computer attacks
- b) A faster way to mine Bitcoin
- c) Encryption for 4G networks
- d) A new social media protocol

Q14) Which company acquired the AI startup "Inflection AI" talent in 2024?

- a) Google
- b) Microsoft
- c) Oracle
- d) Salesforce

Q15) Which country launched ChatGPT-like AI first widely?

- a) China
- b) USA
- c) India
- d) Japan

Q16) If the word EARTH be written as QPMZS in coded form, how can HEART be written. following the same coding?

- a) SQPZM
- b) SQMPZ
- c) SPQZM
- d) SQPMZ

Q17) Find the odd one out: Circle, square. Triangle, Sphere

- a) Circle
- b) Square
- c) Triangle
- d) Sphere

Q18) Find the missing number in the series: 2, 6, 12, 20, 30, ?

- a) 36
- b) 40
- c) 42
- d) 44

Q19) Look at this series: 3, 4, 7, 8, 11, 12, _____ What number should come next?

- a) 7
- b) 10
- c) 14
- d) 15

Q20) JAK, KBL, LCM, MDN, _____

- a) OEP
- b) NEO
- c) MEN
- d) PFQ

Q21) Shivani walked 20 m towards the north. Then she turned right and walks 30 m.

Then she turns right and walks 35 m. Then she turns left and walks 15 m. Finally she turns left and walks 15 m. In which direction and how many meters is she from the starting position?

- | | |
|--------------|--------------|
| a) 15 m West | b) 30 m East |
| c) 30 m West | d) 45 m East |

Q22) There are 24 students in dance class, and the teacher is planning for an arrangement of students on stage. Sampratha is 9th from the left side of the row and Supreetha is 22nd from the right side of the row. Find the number of dancers standing between the sisters Sampratha and Supreetha?

- | | |
|------|------|
| a) 4 | b) 5 |
| c) 6 | d) 7 |

Q23) bluftok means blue sky

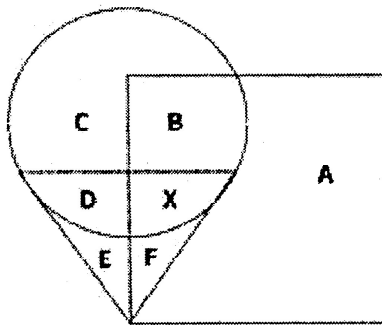
okbluft means sky blue

okbluftme means blue sky morning

What could "mebluftok" mean?

- | | |
|----------------|---------------------|
| a) blue sky | b) sky blue |
| c) morning sky | d) morning blue sky |

Q24) Look at the below diagram:



The circle represents Books.

The triangle represents Magazines,

The square represents Newspapers.

Which region(s) represent all three - Books, Magazines, and Newspapers?

- | | |
|------|------|
| a) B | b) C |
| c) X | d) F |

Q25) There are 64 history books arranged in a row at central library Bangalore.

Ancient history is 25th from the left side of the row and Middivel history is 30th from the right side of the row. What is the total number of books between Ancient and Middivel history?

- | | |
|------|------|
| a) 6 | b) 7 |
| c) 8 | d) 9 |

Q26) If A is the sister of B, B is the brother of C, and C is the son of D, how is D related to A?

- | | |
|----------------|----------------|
| a) Mother | b) Father |
| c) Grandmother | d) Grandfather |

Q27) Look at this series: 7, 10, 8, 11, 9, 12, ____ What number should come next?

- a) 7
- b) 12
- c) 10
- d) 13

Q28) If in a certain code, FRIEND is written as GSJFME. how is MARKET written in the same code?

- a) LBSLFT
- b) NBSLDU
- c) NBSLFT
- d) NBRLFT

Q29). Melt: Liquid :: Freeze:

- a) Ice
- b) Solid
- c) Condense
- d) Push

Q30) A man is facing north. He turns 45 degrees clockwise, then 180 degrees anti-clockwise. Which direction is he now facing?

- a) North-east
- b) North-west
- c) South-east
- d) South-west

Q31) Six people P, Q, R, S, T, and U are sitting in a circle facing the centre. P sits between Q and R. T is opposite Q. Who is sitting to the immediate right of P?

- a) Q
- b) R
- c) S
- d) U

Q32) Find the odd one out from the given pairs.

- a) 5:15
- b) 24:70
- c) 33:99
- d) 121:363

Q33) If set A represents students who study math and set B represents students who study science, what does the union represent?

- a) Students who study either math or science
- b) Students who study only science
- c) Students who study only math
- d) Students who study both math and science

Q34) From the given options, choose the odd one out.

- a) Bangladesh: Taka
- b) Brazil: Real
- c) Cyprus: Dollar
- d) Iran: Rial

Q35) What shall come in place of Questions mark?

Flow: River:: Stagnant:?

- a) Canal
- b) Dam
- c) Ocean
- d) Pool

Q36) 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

Q37) 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

Q38) In one hour, a boat goes 13 km/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) 14 km/hr
- c) 10 km/hr
- d) 6 km/hr

Q39) For the given number series, find what will come in place of the question mark(?)

15, 19, 28, 7, 69, 105

- a) 44
- b) 46
- c) 45
- d) 48

Q40) 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

Q41) A man travels from his home to office at 4km/hr and reaches his office 20 min late. If the Speed had been 6 km/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

Q42) 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

Q43) 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

Q44) Find the value of $(0.49 - 0.25) / 0.2$?

- a) 1.02
- b) 1.2
- c) 1.04
- d) 1.4

Q45) 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

Q46) If January 1, 1996, was Monday, what day of the week was January 1, 1997?

- a) Wednesday
- b) Friday
- c) Thursday
- d) Sunday

Q47) How many times the hands of a clock coincide in a day?

- a) 24
- b) 23
- c) 22
- d) 21

Q48) 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) 157.80 m | b) 155.80 m |
| c) 159.80 m | d) 161.80 m |

Q49) 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% |

Q50) 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 |

Q51) 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 |

Q52) How many ways the letters of the word "RUMOUR" can be arranged?

- | | |
|--------|--------|
| a) 180 | b) 150 |
| c) 230 | d) 200 |

Q53) 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

Q54) 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

Q55) The angles of elevation of the top of a tower from the top and bottom of a tree of height 15 m 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

Q56) I cannot part my favorite jacket, even though it's torn.

- a) from
- b) with
- c) of
- d) away

Q57) If it rains, the match canceled.

- a) will be
- b) would be
- c) is
- d) has been

Q58) One should respect elders.

- | | |
|----------|----------|
| a) his | b) their |
| c) one's | d) our |

Q59 The CEO, along with his assistants, attending the meeting.

- | | |
|---------|---------|
| a) are | b) is |
| c) have | d) were |

Q60) He is good mathematics.

- | | |
|-------|---------|
| a) in | b) with |
| c) at | d) on |

Q61) We had hardly reached the door it started pouring.

- | | |
|---------|----------|
| a) than | b) when |
| c) then | d) while |

Q62) She told me that she the movie already.

- | | |
|-------------|-------------|
| a) saw | b) sees |
| c) has seen | d) had seen |

Q63) There is a bridge the river.

- | | |
|----------|------------|
| a) on | b) across |
| c) above | d) through |

Q64) Please refrain smoking in this area.

- | | |
|-------|---------|
| a) to | b) from |
| c) in | d) by |

Q65) The teacher made the students the essay twice.

- | | |
|-------------|------------|
| a) to write | b) wrote |
| c) write | d) writing |

From Q.66 to Q70. Synonyms (Choose the word nearest in meaning)

Q66) Intrepid

- | | |
|------------|-------------|
| a) Fearful | b) Cowardly |
| c) Brave | d) Timid |

Q67) Prolific

- | | |
|-----------|---------------|
| a) Barren | b) Productive |
| c) Scarce | d) Rare |

Q68) Mundane

- | | |
|-------------|------------------|
| a) Ordinary | b) Extraordinary |
| c) Heavenly | d) Unique |

Q69) Amiable

- | | |
|------------|-------------|
| a) Hostile | b) Friendly |
| c) Rude | d) Angry |

Q70) Novice

- | | |
|-----------------|-------------|
| a) Expert | b) Beginner |
| c) Professional | d) Master |

From Q.71 to Q.75 Antonyms (Choose the word opposite in meaning)

Q71) Rigid

- | | |
|-------------|-----------|
| a) Stiff | b) Strict |
| c) Flexible | d) Hard |

Q72) Abundance

- | | |
|-------------|-----------|
| a) Scarcity | b) Plenty |
| c) Wealth | d) Excess |

Q73) Plausible

- | | |
|---------------|-------------|
| a) Believable | b) Unlikely |
| c) Reasonable | d) Probable |

Q74) Zenith

- | | |
|----------|-------------|
| a) Peak | b) Pinnacle |
| c) Nadir | d) Top |

Q75) Valiant

- | | |
|---------------|-----------|
| a) Courageous | b) Brave |
| c) Cowardly | d) Heroic |

Q76. API stands for

- a) Application Programming Interchange
- b) Application Programming Interaction
- c) Application Programming Interface
- d) None of these

Q77. Which statement about a session is incorrect in advanced java?

- a) All users connect to the same session
- b) All users have the same session variable
- c) The default timeout value for a session variable is 20 minutes
- d) A new session cannot be created for a new user

Q78. Which one of the following contains date information in advanced java?

- a) java.sql.TimeStamp
- b) java.sql.Time
- c) java.io. Time
- d) java.io.TimeStamp

Q79. Which of the following is used to call stored procedure in advanced java?

- a) Statement
- b) PreparedStatement
- c) CallableStatment
- d) CalledStatement

Q80. The default layout manager of Frame is in advanced java

- a) FlowLayout
- b) BorderLayout
- c) GridLayout
- d) CardLayout

Q81. What is the size of float and double in java?

- a) 32 and 64
- b) 32 and 32
- c) 64 and 64
- d) 64 and 32

Q82. Select the valid statement to declare and initialize an array in Java.

- a) int [] A={}
- b) int [] A = {1,2,3}
- c) int [] A = (1, 2, 3)
- d) int [] [] A = {1,2,3}

Q83. When is the object created with new keyword in java?

- a) At run time
- b) At compile time
- c) Depends on the code
- d) None

Q84. Identify the corrected definition of a package in java.

- a) A package is a collection of editing tools
- b) A package is a collection of classes
- c) A package is a collection of classes and interfaces
- d) A package is a collection of interfaces

Q85. In Java Programming. JRE stands for

- a) Java Run Ecosystem:
- b) Java Runtime Environment
- c) JDK Runtime Environment
- d) none of these

Q86. Which method is called to free the resources of an object manually in C#?

- a) Delete()
- b) Free()
- c) Remove()
- d) Dispose()

Q87. Which of the following keyword is used to raise an exception manually in C#?

- a) raise
- b) return
- c) throw
- d) error

Q88. Which of the following collection stores key-value pairs in C#?

- a) SortedList
- b) HashTable
- c) Dictionary
- d) All of these

Q89. How to pass a function as a parameter in C#?

- a) Cannot pass a function as a parameter in C#.
- b) Using pointer
- c) Using dynamic parameter type
- d) Using delegate

Q90. In C#, SOAP stands for

- a) Simple Object Access Protocol
- b) Simple Object Access Program
- c) Standard Object Access Protocol
- d) Standard Object Access Program

Q91. Who does the man command do in LINUX?

- a) manages directories
- b) provides documentation or manual pages
- c) manages users
- d) monitors system performance

Q92. Identify the one which is not a communication command in Linus operating system.

- | | |
|---------|----------|
| a) mail | b) mesg |
| c) grep | d) write |

Q93. Linux kernel was founded by?

- a) Richard Stallman.
- b) Linus Torvalds.
- c) Bill Gates
- d) Ben Thomas

Q94. In Linux, the types of users are

- a) super users, system users and regular users
- b) super users, system users and supreme users
- c) admin, system users and normal users
- d) none of these

Q95. In Linux, applications communicate with kernel by using

- a) system calls
- b) c programs
- c) shell script
- d) shell

Q96. Which keyword is used for function in Python language?

- a) Function
- b) def
- c) Fun
- d) Define

Q97. Who developed the Python language?

- a) Zim Den
- b) Niene Stom
- c) Wick van Rossum
- d) none of these

Q98. Which character is used in Python to make a single line comment?

- a) /
- b) //
- c) #
- d) !

Q99. Which of the following option is not a core data type in the python language?

- a) Dictionary
- b) Lists
- c) Class
- d) all of these

Q100. In the Python programming language, syntax error is detected by

- a) Interpreter at Compile time
- b) Run time at Interpreter
- c) Interpreter at Run time
- d) Compile time at Run time



- Rough Work -