Indian Association for the Cultivation of Science

(Deemed to be University under *de novo* Category)

Master's/Integrated Master's-PhD Program/Integrated Bachelor's-Master's Program/PhD Course

Mid-Semester Examination-Spring 2023

Subject: *Object-Oriented Programming with Java*

Subject Code(s): *MCS1201B*

Full Marks: 25

Time Allotted: *2 h*

[Answer any five questions]

5*5=25

1. Explain public static void main (String args []) in Java. Why Java is called a compiler and interpreter-based language?

(3+2)

2. What is a constructor? Why it is needed? How many different contractors are available in java? Explain with an example.

(1+1+3)

3. Explain super and final keywords with proper examples.

(2.5+2.5)

4. What is the interface? How to interface is used to solve multiple inheritance problems explain with a proper example.

(1+4)

5. What is inheritance? Discuss various types of inheritance with proper examples.

(1+4)

6. a) Define class and object.
   b) What is a package? Explain with an example.

(2+ (1+2))

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