

Roll No. : .....

Total No. of Questions : 16 ]

[ Total No. of Printed Pages : 3

# **KLET-151**

**M.Sc. (Lateral Entry) (Ist Semester)**

**Examination Jan., 2023**

**COMPUTER SCIENCE**

**Paper - FS-Comp-MCSLE-CC-102**

**(Java)**

*Time : 3 Hours ]*

*[ Maximum Marks : 40*

The question paper contains three Sections.

**Section-A**

**(Marks : 1 × 10 = 10)**

*Note :-* Answer all *ten* questions (Answer limit **50** words). Each question carries 1 mark.

**Section-B**

**(Marks : 3 × 5 = 15)**

*Note :-* Answer any *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries 3 marks.

**Section-C**

**(Marks : 5 × 3 = 15)**

*Note :-* Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries 5 marks.

**Section-A**

1. (i) Explain the tokens in Java.

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- (ii) What is an object ?
- (iii) Why is Java platform independent ?
- (iv) What is super class ?
- (v) Can a class extend itself ? Justify your answer.
- (vi) Which keyword is used to inherit a class ?
- (vii) How to remove all duplicates from a given string ?
- (viii) Why do we need exception handling in Java ?
- (ix) Can we just use try instead of finally and catch blocks ?
- (x) What is the thread ?

### **Section-B**

#### **Unit-I**

- 2. What are the features of Java ?
- 3. What is meant by local variable and the instance variable ? Explain with examples.
- 4. What are loops in Java ? What are the three types of loops ?

#### **Unit-II**

- 5. What is meant by Abstract Class ?
- 6. What are Java Packages ? What is the significance of Packages ?
- 7. Can we override protected method of super class as public method in the sub class ? Justify your answer.

#### **Unit-III**

- 8. What are the advantages of multithreading ?
- 9. What do you mean by daemon threads ?
- 10. When should we interrupt a thread ?

### **Section-C**

11. How many types of constructors are there in Java ? Explain them.
12. What do you mean by Constructor Chaining ? Explain with an example.

### **Unit-II**

13. Why do we need wrapper class in Java ? Explain it. Also tell the applications of wrapper classes.
14. Can we override private methods ? Explain java method overriding with an program.

### **Unit-III**

15. What is thread scheduler in Java ? How is the safety of a thread achieved ?
16. Explain the hierarchy of exceptions in Java. What is out of memory error in Java ?