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Roll No................

# M.Sc. III Semester Examination, April-2021

## INFORMATION TECHNOLOGY

**Paper I**

(Java Programming Language)

Time : 3 Hours ]                    [Maximum Marks : 100

**Note** : *All questions are compulsory. Question Paper comprises of 3 sections.* **Section A** *is objective type/Multiple Choice questions with no internal choice.* **Section B** *is short answer type with internal choice.* **Section C** *is long answer type with internal choice.*

### SECTION 'A'          1×10=10
#### (Objective Type Questions)

*Choose the correct answer :*

1. The component used to compile debug and execute Java program is :
   (a) JIT
   (b) JVM
   (c) JDK
   (d) JRE

2. Extension of Java code file is :
   (a) Class
   (b) Java
   (c) .txt
   (d) .js

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3. .......is a templak for creating new objects.
   (a) An array
   (b) A Class
   (c) An method
   (d) An Interface

4. The class that inherits an already defined class is called :
   (a) Subclass
   (b) Superclass
   (c) Both of above
   (d) None

5. Exeption in java arises at :
   (a) Compile time
   (b) Run time
   (c) Anry time
   (d) None

6. To manually throw an exception we use....keyword.
   (a) Catch
   (b) Try
   (c) Finally
   (d) Throw

7. ............are used for performing all I/O in Java.
   (a) Variables
   (b) Class
   (c) Method
   (d) Stream

8. The following classes are used by character streams for I/O operations :
   (a) Istream
   (b) Writer
   (c) Read stream
   (d) None

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**9.** The full form of JDBC is :

(a) Jagged Data base concept

(b) Jitter data base class

(c) Java Databare connectivty

(d) None

**10.** The following method is used to perform DML statements in JDBC :

(a) execute Result ( )        (b) execute A

(c) execute update ( )        (d) execute

SECTION 'B'        **6×5=30**

*(Short Answer Type Questions)*

**Note :** *Answer the following questions in 250 words.*

**1.** Explain Arithmetic operators of Java.

Or

Explain construction and data retrieval from arrays in Java.

**2.** Explain how can you declare and use object and class in Java ?

Or

Explain how can you implement on Interface ?

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**3.** Explain suspend and Resume in context of a thread.

Or

Write advantage of using threads.

**4.** Explain Array Linn Class.

Or

Explain object sterilization.

**5.** Describe swing packages.

Or

Describe Creation, Execution and closing of statement in JDBC.

SECTION 'C'        **12×5=60**
*(Long Answer Type Questions)*

**Note :** *Answer the following questions in 500 words.*

**1.** Explain Java's selection statement.

Or

Write the features of Java.

**2.** Explain method overloading.

Or

Explain constructions concept of Java with example.

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**3.** Discuss the types of exceptions in Java.

Or

Explain the use of try and catch with example.

**4.** Explain collection Interface.

Or

Explain Random access for files in Java.

**5.** Explain prepared statement in Java with examples.

Or

Explain event hierarchy.

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