

MCA
(SEM II) THEORY EXAMINATION 2022-23
OBJECT ORIENTED PROGRAMMING

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief. 2 x 10 = 20

- (a) How are objects implemented in Java?
- (b) What are the limitations of static members?
- (c) Write a java program to create a list.
- (d) List out the types of constructors.
- (e) Explain about try-catch with example.
- (f) What is the advantage of static class in Java?
- (g) List out various Layout Managers used in Java.
- (h) Discuss Generic programming in java
- (i) Define ServerSocket in java.
- (j) Compare thread based and process based multitasking in java

SECTION B

2. Attempt any three of the following: 10x3=30

- (a) Compare Java Runtime Environment and Java Virtual Machine.
- (b) Distinguish between Procedure Objected Programming and Object Oriented Programming.
- (c) What is meant by Stream and what are the types of Streams and classes of the Streams?
- (d) Write short note on following components:
 - (i) Label
 - (ii) TextField
 - (iii) TextArea
 - (iv) List
 - (v) Choice
- (e) Discuss Synchronizing threads and Daemon Threads.

SECTION C

3. Attempt any one part of the following: 10x1=10

- (a) Explain in detail about Array with syntax and example.
- (b) Describe in detail about the types of inheritance in java.

4. Attempt any one part of the following: 10x1=10

- (a) What do you understand by Layout manager? Illustrate three type of layout available in Java with the help of suitable syntax.
- (b) Explain event handling model in Java with proper example.

5. Attempt any *one* part of the following:

10x1=10

- (a) What is Open Data Base Connectivity (JDBC)? How it is used in java data base connectivity.
- (b) Write short notes on the following:
 - (i) Toggle buttons
 - (ii) Combo box
 - (iii) Tabbed Panes
 - (iv) Scroll Panes

6. Attempt any *one* part of the following:

10x1=10

- (a) What do you mean by Constructor? How many type of constructor availed in java? Explain with suitable examples.
- (b) What do you mean by generics in java? Explain advantage and disadvantage of genetic programming in java.

7. Attempt any *one* part of the following:

10x1=10

- (a) Which is the alternative approach to implement multiple inheritances in Java? Explain, with an example?
- (b) What do you mean by Exception? What is checked and unchecked exception? Explain Exception chaining.