

**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.

QP23EP2\_290  
| 19-08-2023 08:54:07 | 117.55.242.132