

No. of Printed Pages : 4

MCS-024

**MASTER OF COMPUTER
APPLICATIONS (MCA) (REVISED)/
BACHELOR OF COMPUTER
APPLICATIONS B.C.A. (REVISED)**

Term-End Examination

June, 2023

**MCS-024 : OBJECT ORIENTED TECHNOLOGIES
AND JAVA PROGRAMMING**

Time : 3 Hours

Maximum Marks : 100

Weightage : 75%

Note : *Question No. 1 is compulsory. Attempt any
three questions from the rest.*

1. (a) Explain the basic features of object oriented programming language. 5
- (b) Why is Java called machine independent language ? Explain the functionality of JVM. 5

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- (c) Differentiate between constructor and method, give example for both. 5
- (d) What is an abstract class ? Explain the use of abstract class with an example. 5
- (e) What are cookies and session variables ? Briefly discuss the utility of both. 5
- (f) Explain the different steps in the life cycle of an applet. 5
- (g) Discuss the relationship between data abstraction and encapsulation. 5
- (h) Explain the usage of container in Java Applet and Servlet. 5
2. (a) Explain how exception handling is performed in Java. Briefly discuss the concept of checked exception and unchecked exception, with an example of each. 10
- (b) Briefly discuss the concept of listener in Java. Write a program in java to implement mouse motion listener, support your program with suitable comments. 10

3. (a) What is string class ? How is it different from String Buffer class ? Write a java program to find the length of a given string. 7
- (b) What is servlet ? Explain how session handling is performed in servlet programming. 7
- (c) What is an Interface ? Write a java program to show how a class implements two interfaces. 6
4. (a) What is RMI in Java ? Write the steps to create stub and skeleton. 7
- (b) Write a java program to create a volume class. Derive cube and sphere classes from it. Define constructor for these three classes. 7
- (c) What is Synchronization ? Explain how methods are synchronized in Java, with the help of an example. 6

5. Write short notes on the following : $5 \times 4 = 20$

- (a) Dynamic Binding
- (b) Stream Tokenizer
- (c) JDBC Drivers
- (d) Function Overloading

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