

(Please write your Exam Roll No.)

Exam Roll No. ....

# END TERM EXAMINATION

THIRD SEMESTER [MCA] NOVEMBER-DECEMBER 2018

Paper Code: MCA-205

Subject: Java Programming

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q.No1 which is compulsory. Select one question from each unit.

(10x2.5=25)

Q1 Answer the following:-

- Java Programs are platform independent. Comment on this statement.
- What are interfaces and write two differences between abstract class and interface.
- How are objects handled that go out of scope in java.
- Compare C# and Java.
- Is multithreading supported by Java? If yes, mention the ways of creating thread.
- What do you understand by server socket? How is it different from client socket?
- Why are swing components said to be light weight components?
- Differentiate between Applet and Application in java.
- What is object serilization? When is it required?
- What is Java Beans? Why it is used?

## UNIT-I

- Q2 (a) Explain the class file format in detail. (5)  
(b) Differentiate between string and string buffer class with the suitable example. (4)  
(c) Discuss the various access specifiers in Java. (3.5)

- Q3 (a) Explain the super keyword in the context of constructor, variable and methods. (5)  
(b) Write a program to explain the multiple inheritances in Java. (5)  
(c) What is the use of wrapper classes in java and mention any two class. (2.5)

## UNIT-II

- Q4 (a) Write a program to raise the user defined exception when the given input is not equal to "GGSIPIU" and handle that exception. (6)  
(b) Write a program to display odd and even number in a particular interval using threads. (4)  
(c) What is synchronization? How it is achieved in JAVA. (2.5)

## OR

- Q5 (a) Write a chat program using TCP/IP. (6)  
(b) Write a java program for comparing the contents of two file and display the appropriate messages. (5)  
(c) Differentiate between sleep and wait method? (1.5)

## UNIT-III

- Q6 (a) Create a registration form that accepts name, course and college when click on submit button data has to be submitted in the database. (6.5) 2  
(b) Explain the lifecycle of an applet with the help of an example. (6) 4

## OR

- Q7 (a) Give examples of situations when you would use the collections. Hashmap, HashSet, TreeMap and TreeSet. (4)

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- (b) What is the principles of the event delegation model? Explain the source of the event and event listeners. (8.5)

**UNIT-IV**

- Q8 (a) Explain the RMI Architecture. (4)  
(b) Write a RMI application to query the availability of a book in a book store. The reference to the book store object is to be made available remotely to the client application. (8.5)

**OR**

- Q9 (a) Explain the architecture of java bean. Write an example to create a java bean and how to add customizable properties to a java bean. (10)  
(b) Compare AWT and Swing. (2.5)

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