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Roll No. :

322553(22)

B. E. (Fifth Semester) Examination,

April-May 2021

(New Scheme)

(CSE Engg. Branch)

PROGRAMMING in JAVA

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) of each unit is compulsory. Attempt any two parts from (b), (c) and (d). Question (a) carry 2 mark, and (b), (c) and (d) carries 7 marks.

Unit-I

1. (a) Define JVM?

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- (b) Explain various object oriented features of Java. 7
- (c) Define constructor and write a suitable Java program to demonstrate constructor overloading. 7
- (d) Write short notes on : 7
- (i) Static
 - (ii) Final
 - (iii) This Keyword

Unit-II

2. (a) Define Exception. 2
- (b) Explain dynamic method dispatch with suitable java program. 7
- (c) Explain the mechanism of exception handling and write the significance of finally block. 7
- (d) Write short notes on : 7
- (i) Super
 - (ii) Method overriding
 - (iii) Checked and unchecked exception

Unit-III

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3. (a) Define Thread. 2
- (b) Explain thread life cycle and write a java program to create a thread using Runnable interface. 7
- (c) Write short notes on : 7
- (i) Wait ()
 - (ii) Notify
 - (iii) Synchronization
- (d) Explain character stream and byte stream with suitable java program. 7

Unit-IV

4. (a) Define socket in the context of networking in java. 2
- (b) Explain Applet Life Cycle and write a java program to pass the parameter to applet. 7
- (c) Explain delegation event model and write a suitable java program to demonstrate this model. 7
- (d) Explain Type-I, Type-II, Type-III and Type-IV JDBC drivers. 7

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Unit-V

5. (a) What is AWT? 2
- (b) Write a java program to demonstrate event handling. 7
- (c) Explain Remote Method Invocation (RMI) by suitable java program. 7
- (d) Write short notes on : 7
- (i) Layout Manager
 - (ii) Window
 - (iii) Frame