

Roll No .....

**IT-5005 (D) (CBGS)****B.E. V Semester**

Examination, November 2018

**Choice Based Grading System (CBGS)****Java Programming***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) What kind of different Applications can be developed in the Java programming? Explain each in brief. 7  
b) How Security features can be provided in the Java applications? 7
2. a) Explain the roles of Java Virtual Machine. Explain the importance of garbage collection in Java and how it is achieved? 7  
b) What is the Importance of Abstract class? How it is Created in Java program? And how it is different from interface? 7
3. a) What do you mean by Applets in Java? How it is created in Java? Write syntax. Also explain its security issues. 7  
b) Explain few properties and events pertaining to text box, combo box and command button in Java. 7

4. a) What do you mean by Threads? Also explain the multithreaded applications? What are the motivation to develop a multithreaded applications? 7  
b) Explain the terms thread synchronization and thread scheduling. How it is achieved in Java programming. 7
5. a) Explain input output stream in Java along with its type. 7  
b) Write a code in Java that read an input data from a file and display the same on the command prompt. 7
6. a) What is the role of JDBC in Java? Write syntax to create a connection with any RPBMS using JDBC? 7  
b) Explain the steps, to develop an application using swings. 7
7. a) What do you mean by Socket programming? How UDP based socket can be created in Java? Write syntax for it. 7  
b) Discuss distributed applications and role of RMI to develop the same. 7
8. Write short notes on any two: 14  
a) Client server architecture  
b) Buffer Reader/Writer  
c) Memory allocation in Java  
d) Exception handling

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