INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Four Year B.Tech III Semester End Examinations (Supplementary) - July, 2018
Regulation: IARE – R16
OBJECT ORIENTED PROGRAMMING THROUGH JAVA

Time: 3 Hours   (CSE)   Max Marks: 70

Answer ONE Question from each Unit
All Questions Carry Equal Marks
All parts of the question must be answered in one place only

UNIT – I

1. (a) Explain the three OOPs principles briefly with examples. **[7M]**

    (b) Differentiate between procedural and object oriented programming language. **[7M]**

2. (a) Write a program to give the example for 'this' operator. And also use the 'this' keyword as return statement. **[7M]**

    (b) Write a program to demonstrate static variables, methods, and blocks. **[7M]**

UNIT – II

3. (a) How do you achieve multiple inheritance in java. Give Example. **[7M]**

    (b) Explain the concept of abstract class with an example. **[7M]**

4. (a) Explain the following with example **[7M]**
    i. Super keyword.
    ii. Final keyword
    iii. This keyword

    (b) Differentiate between Polymorphism and Interface with an example program.

    [7M]

UNIT – III

5. (a) What is an Exception? Write a java program that handles ArithmeticException, ArrayIndexOutofBoundsException and any other unknown exception. **[7M]**

    (b) What is the difference between checked and unchecked exception? Write the code segments for each type. **[7M]**

6. (a) What is thread? What are the various ways of creating threads? Explain with examples **[7M]**

    (b) Write a java program on thread synchronization and explain in detail. **[7M]**

UNIT – IV

7. (a) What is random access file? Explain with a suitable program. **[7M]**

    (b) Write a java program that copies contents of one file to other. **[7M]**

8. (a) What is JDBC? Explain the various types of JDBC Drivers. **[7M]**

    (b) Write java JDBC program that displays the records of a student table in database containing the fields Roll Number (Integer), Name (String), Branch (String), Percentage (Float). **[7M]**

UNIT – V

9. (a) What is layout manager? Explain the various types of layout Managers. **[7M]**

    (b) Write a sample code that displays a dialogue using java swings. **[7M]**

10. (a) Draw and explain java AWT Hierarchy with a neat sketch. **[7M]**

    (b) What are the differences between swings with AWT. **[7M]**

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