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INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech III Semester End Examinations (Regular) - November, 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

- Write a sample java program to find the GCD of two numbers. [7M]
 - What is an array? How arrays are declared and initialized? Explain with examples. [7M]
- What is recursion? Write a recursive program in Java to find the Fibonacci Series. [7M]
 - Explain parameterized constructor. Write a program using parameterized constructor that reads two numbers and compute their sum. [7M]

UNIT – II

- Explain the process of creating and accessing packages with suitable example [7M]
 - Differentiate between abstract class and interface and write situation where to use interfaces. [7M]
- What is polymorphism? Explain runtime polymorphism with a program. [7M]
 - Write a java program to implement the multiple inheritance concepts for calculating area of a circle and a square. [7M]

UNIT – III

- What is an Exception? What are the three categories of exceptions? Also discuss the advantages of exception handling. [7M]
 - differentiate between multithreading and multitasking. Explain thread life cycle in detail. [7M]
- Write about the functions available in Java related to Thread creation using runnable interface with example. [7M]
 - With example, explain the usage of try catch block in exception handling [7M]

UNIT – IV

7. (a) What is the difference between the Reader/Writer class hierarchy and the InputStream/OutputStream class hierarchy? [7M]
- (b) What are the types of JDBC Statements available? How do you execute and read select queries using JDBC? [7M]
8. (a) Write a java program to read a text file and write it into another text with capital vowels [7M]
- (b) Explain steps involved in connecting database with java application. [7M]

UNIT – V

9. (a) Develop a Java Program for a simple Login Screen with Username and Password [7M]
- (b) Briefly explain about components of AWT [7M]
10. (a) Explain clearly the following components of AWT with suitable examples for Buttons and-TextField. [7M]
- (b) What are Layout Managers? Differentiate between Border and Grid Layout with a programming example each. [7M]

