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II/IV B.Tech (Regular / Supplementary) DEGREE EXAMINATION

February, 2021

Third Semester

Time: Three Hours

Common to CS E & IT

Object Oriented Programming

Maximum: 50 Marks

Answer all questions from Part-A.

(1X10= 10 Marks)

Answer ANY FOUR questions from Part-B.

(4X10=40 Marks)

Part-A

(1X10=10 Marks)

1. Answer all questions
 - a) Write the syntax to create an object of a class.
 - b) What is the use of Super keyword?
 - c) List different access specifiers in Java
 - d) What is an Exception?
 - e) What is thread and process?
 - f) What is stream?
 - g) List any four collection classes of Java.
 - h) Differentiate AWT and swings
 - i) Write the syntax for creating simple window in AWT.
 - j) How do you define a JTree in Java?

Part-B

2. a) Explain the concept of method overloading with an example 5M
 b) Explain the i) Encapsulation ii) Inheritance iii) Polymorphism 5M
3. a) Explain the concept of method overriding with an example 5M
 b) Write a program to print the area of a rectangle by creating a class named 'Area' taking the values of its length and breadth as parameters of its constructor and having a method named 'returnArea' which returns the area of the rectangle. Length and breadth of rectangle are entered through keyboard. 5M
4. Define inheritance? Explain the types of inheritances with examples. 10M
5. a) Explain various string handling methods with suitable examples. 5M
 b) What is interface? Explain with an example program how an interface can extend another interface. 5M
6. a) Write a Java Program to copy contents of one file to another file using Character Streams. 5M
 b) Explain types of I/O streams with an example 5M
7. a) Explain the concept of exception handling mechanism with suitable example 5M
 b) Explain the concept of synchronization in Java with an example program. 5M
8. a) Define an Applet? Explain the life cycle of an applet with an example program 5M
 b) Explain the creation of JComboBox with an example program. 5M
9. a) Write a Java program to implement MouseEvent. 5M
 b) Explain about Swing components with an example 5M