Code: 5G466

III B.Tech. II Semester Supplementary Examinations May/June 2022
Object Oriented Programming Concepts
(Common to EEE & ECE)

Max. Marks: 70   Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)
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Marks

UNIT–I

1. Explain the following Concepts with suitable syntaxes & examples.
   i. Class   ii. Object   iii. Pointer   iv. Array   v. Destructor   14M

OR

2. a) What is an array? How arrays are declared and initialized? Explain with examples.   7M
   b) Explain the features of Object Oriented Programming and mention the benefits of OOP over structured programming.   7M

UNIT–II

3. a) Write short notes on followings.
   i. friend Function   ii. virtual function   8M
   b) What is operator overloading? Write a program to overload the + operator.   6M

OR

4. a) Explain the conditional statements in detail.   8M
   b) Explain 'this' pointer with an example program.   6M

UNIT–III

5. a) Define Class & Object in Java? Explain with suitable example.   7M
   b) Write a java program to print first N Fibonacci Series using While loop.   7M

OR

6. a) Write the structure of java program.   6M
   b) Mention the five types of tokens in Java. Explain the derived data types in Java.   8M

UNIT–IV

7. a) What are exceptions in Java? Write about the common exceptions that occur in Java.   7M
   b) What is meant by inheritance? How can you achieve multiple-inheritance in Java   7M

OR

8. a) Discuss the process of throwing own exceptions in java.   8M
   b) Explain the various access specifiers are used in java.   6M

UNIT–V

9. a) Define Applet. Write a java program to create simple Applet in java.   7M
   b) What is multithreading? Explain the process of creation of a thread in java.   7M

OR

10. a) What are the stages in Thread life cycle? Explain them in detail.   8M
    b) Write short note on Streams in java.   6M

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