

Hall Ticket Number : 

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**R-15****Code: 5G466**

III B.Tech. II Semester Supplementary Examinations April 2023

**Object Oriented Programming Concepts**

(Common to EEE &amp; 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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**UNIT-I**

- |  | Marks | CO | BL  |
|--|-------|----|-----|
| 1. a) Define constructor and write a C++ program to implement types of constructors. | 7M    | 1  | 1,6 |
| b) What is a reference variable? Explain the usage of reference variable.            | 7M    | 1  | 1,2 |

**OR**

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|---|----|---|-----|
| 2. a) What are constructors? Explain constructor overloading with an example program. | 7M | 1 | 1,2 |
| b) Describe the benefits offered by OOP.  | 7M | 1 | 2   |

**UNIT-II**

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|---|----|---|-----|
| 3. a) Define Inheritance. Write a C++ program to demonstrate multiple inheritances.       | 7M | 2 | 1,6 |
| b) What is mean by Overloading? Explain about function overloading with suitable program. | 7M | 2 | 1,2 |

**OR**

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|--|----|---|-----|
| 4. a) What is polymorphism? Explain with an example.   | 7M | 2 | 1,2 |
| b) Explain about various manipulators of C++ language. | 7M | 2 | 2   |

**UNIT-III**

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|---|----|---|-----|
| 5. a) Distinguish between Java & C++.   | 7M | 3 | 4   |
| b) List and Explain Data types in Java. | 7M | 3 | 1,2 |

**OR**

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|--|----|---|---|
| 6. a) Explain about decision making statements in Java.  | 7M | 3 | 2 |
| b) Write a program to find the number of and sum of all integers greater than 150 and less than 250 that are divisible by 6. | 7M | 3 | 6 |

**UNIT-IV**

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|--|----|---|-----|
| 7. a) Write an example program to create threads using Thread class.                           | 7M | 4 | 6   |
| b) Describe interface. How can you implement interface in java? Explain with suitable program. | 7M | 4 | 1,2 |

**OR**

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|--|----|---|---|
| 8. a) Give a detail note on interfaces and packages in java with examples. | 7M | 4 | 1 |
| b) Write a java program to implement the built-in exception.               | 7M | 4 | 6 |

**UNIT-V**

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|--|----|---|---|
| 9. a) Demonstrate the passing parameters to the applet with example. | 7M | 5 | 3 |
| b) Explain thread class extending in JAVA with suitable example.     | 7M | 5 | 2 |

**OR**

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|---|----|---|-----|
| 10. a) How can you create a thread in java? Write a Java Program to create a thread using Thread Class. | 7M | 5 | 1,6 |
| b) Explain role of applet in designing a web page.  | 7M | 5 | 2   |

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Important Note: 1. On completing your answers. Compulsorily draw diagonal cross line on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 32+8=40, will be treated as malpractice.