

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech. II Year I Semester Regular Examinations February-2025

OBJECT ORIENTED PROGRAMING THROUGH JAVA

(Common to CSIT, CSE, CIC, CCC, CAI, CSM & CAD)

Time: 3 Hours

Max. Marks: 70

PART-A

(Answer all the Questions 10 x 2 = 20 Marks)

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|---|---|---|-----|----|----|
| 1 | a | Identify different types of literals with examples. | CO1 | L3 | 2M |
| | b | Define ternary operator with syntax. | CO1 | L1 | 2M |
| | c | What is meant by an Nestedclass? | CO2 | L1 | 2M |
| | d | Define method. | CO2 | L1 | 2M |
| | e | Differentiate between arrays and vectors. | CO3 | L4 | 2M |
| | f | What is the use of Interface? | CO4 | L1 | 2M |
| | g | Define Byte streams. | CO5 | L1 | 2M |
| | h | Define java library. | CO5 | L1 | 2M |
| | i | What is FX GUI in java? | CO6 | L1 | 2M |
| | j | What is String in Java ? Is String is data type? | CO5 | L1 | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|---|---|--|-----|----|----|
| 2 | a | List and explain about different data types with examples. | CO1 | L2 | 5M |
| | b | Describe the structure of java. | CO1 | L2 | 5M |

OR

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|---|---|--|-----|----|----|
| 3 | a | What is an operator? Explain different types of operators. | CO1 | L5 | 5M |
| | b | Create a java program to find Factorial of given number. | CO1 | L6 | 5M |

UNIT-II

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|---|---|---|-----|----|----|
| 4 | a | Describe the access control for class members with example. | CO2 | L2 | 5M |
| | b | Explain the application of final keyword with variable, method and class in detail with an example. | CO2 | L5 | 5M |

OR

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|---|---|---|-----|----|----|
| 5 | a | Distinguish method Overriding and method Overloading. | CO2 | L4 | 5M |
| | b | Differentiate between attribute final and static. | CO2 | L4 | 5M |

UNIT-III

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|---|---|---|-----|----|----|
| 6 | a | Develop a Java Program to Check if an Array Contains a Given Value. | CO3 | L3 | 5M |
| | b | Create a java program constructor method in inheritance. | CO3 | L3 | 5M |

OR

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|---|---|--|-----|----|----|
| 7 | a | What is an interface? Rules to create an interface in java with example. | CO3 | L1 | 5M |
| | b | Illustrate the following | CO4 | L3 | 5M |
| | | i)Static method in interface ii)Functional interface | | | |

UNIT-IV

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|---|---|---|-----|----|----|
| 8 | a | i. Identify the java.lang packages and its classes. | CO5 | L1 | 3M |
| | | ii. How to use of try and catch block in java? | | | 3M |
| | b | What is an Exception? Explain different types of Exception. | CO5 | L2 | 4M |

OR

- 9 a What is time package? Create a java program for Date/Time formatting in java. **CO5 L5 5M**
b How to Write and Read a file in java with an example. **CO5 L1 5M**

UNIT-V

- 10 a Distinguish String and its methods and StringBuffer and its methods with suitable example. **CO5 L5 5M**
b Create java program for main thread-creation of new threads. **CO5 L6 5M**

OR

- 11 a Illustrate about Deadlock and race situations. **CO6 L3 5M**
b Explain about window structure in java FX APP. **CO6 L2 5M**

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