**Printed page: 2 Subject Code: ACSE0302**

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**Roll No:**

**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

**(An Autonomous Institute)**

**Affiliated to Dr. A.P. J. Abdul Kalam Technical University, Uttar Pradesh  
Course - B.tech Branch AI/ AIML / IOT / DS**

**Semester -3rd Sessional Examination—II Year- (2021 - 2022)**

**Subject Name: Object Oriented Techniques using JAVA**

**Time: 1.15Hours [ SET-1] Max. Marks:30**

**General Instructions:**

* This Question paper consists of ……pages & ……questions.It comprises of three Sections, A, B, and C
* **Section A** -Question No- 1 is objective type questions carrying 1 mark each, Question No- 2 is very short

answer type carrying 2 mark each. You are expected to answer them as directed.

* **Section B -** Question No-3 is Short answer type questions carrying 5 marks each. Attempt any two out

of three questions given.

* **Section C** -Question No. 4 &5are Long answer type (within unit choice) questions carrying 6marks

each. Attempt any one part *a* or *b.*

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|  |  | **SECTION – A** | **[08Marks]** |  |
|  | **All questions are compulsory** | | **(4×1=4)** | **CO** |
|  | **a.** | **Which keyword is used to refer current object of a class in Java?****a) this b) new c) current d) None** | **(1)** | **CO2** |
|  | **b.** | **Which of these can be used to fully abstract a class from its implementation?**  **a) Objects b) Packages c) Interfaces d)  None of the Mentioned** | **(1)** | **CO2** |
|  | **c.** | **Which of the following is the correct way of importing an entire package ‘pkg’?**  **a) import\* pkg. b) Import pkg. c) import pkg.\* d)Import pkg.\*{}** | **(1)** | **CO3** |
|  | **d.** | **Which of these keywords is not a part of exception handling?**  **a) try b)finally c)thrown d)catch** | **(1)** | **CO3** |
| **2.** | **All questions are compulsory** | | **(2×2=4)** | **CO** |
|  |  | **What is finally clause? How it works?** | **(2)** | **CO3** |
|  |  | **Difference between This and Super with example.** | **(2)** | **CO2** |
| **SECTION – B** | | | **[10Marks]** |  |
| **3.** | **Answer any two of the following-** | | **(2×5=10)** | **CO** |
|  | **a.** | **How JAVA support multiple inheritance? Differentiate between abstract class and interface** | **(5)** | **CO2** |
|  | **b.** | **What is array? How do you declare Single dimensional array in JAVA? Explain with example** | **(5)** | **CO2** |
|  | **c.** | **A class inside package contains following class member declarations. Describe visibility of these members within or outside the package.**  **int a;**  **public int b;**  **protected int c;**  **private int d;** | **(5)** | **CO3** |
| **SECTION – C** | | | **[12Marks]** |  |
| **4** | **Answer any one of the following-** | | **(1×6=6)** | **CO** |
|  | **a.** | **What is method overriding? Write a JAVA program to implement method overloading.**  **Expected Output:**  Enter three numbers:2 3 4  Multiplication of two numbers: 6  Multiplication of three numbers: 24 | **(6)** | **CO2** |
|  | **b.** | **Create a try block that is likely to generate three types of exception and then incorporate necessary catch blocks to catch and handle them appropriately.** | **(6)** | **CO3** |
| **5.** | **Answer any one of the following-** | | **(1×6=6)** | **CO** |
|  | **a.** | **Write a Java program to handle an ArithmeticException divide by zero using try, catch and finally blocks.** | **(6)** | **CO3** |
|  | **b.** | **What is inheritance? What are its types explain with example** | **(6)** | **CO2** |