1205E584

Candidate's Seat No:_____

IMSc AIML (NEP) Sem.2 Examination

DSC-M-AIML-123

Object Oriented Programming with Java

Time : 1-00 Hours] **May-2025** **[Max. Marks : 25**

Instructions: All questions are compulsory. Use of non-programmable scientific calculator is allowed.

Q.1 **(a)** Explain different features of Java in Detail **(05)**

(b) Explain final keyword in java with Example. **(05)**

OR

(a) Explain If Else Statement in Java with Example. **(05)**

(b) Explain the concept of arrays in java with Example. **(05)**

Q.2 **(a)** Explain the concept of inheritance in java with Example. **(05)**

(b) Explain the concept of Super keyword in Java with example. **(05)**

OR

(a) Explain the concept of Exception Handling in java with Example. **(05)**

(b) Define Package. Explain User Defined Package in java with Example. **(05)**

Q.3 Attempt any **FIVE** out of **SIX:**(Each carry 01 mark) **(05)**

(1) **Which keyword is used in Java to inherit a class?**

a) implement b) import

c) extends d) inherit

(2) **Which of the following blocks must be used to handle exceptions in Java?**

a) try b) catch

c) finally d) All of the Above

(3) **What is the index of the first element in a Java array?**

a) 0 b) 1

c) -1 d) Depends on Array Type

(4) **What happens if you declare a method as final in Java?**

a) The method can be overridden in subclasses b) The method cannot be inherited

c) The method cannot be overridden d) The method must be static

(5) **What does the super keyword refer to in Java?**

a) The current class b) The base (parent) class

c) A static method d) A final method

(6) **What is the purpose of the this keyword in Java?**

a) It refers to the parent class b) It refers to the current object

c) It creates a new object d) It destroys the current object

**** All the Best ****