

## MSc AIML (NEP) Semester-2 Examination

DSC-M-AIML-123 (T)

Object Oriented Prog With Java

Time : 1-00 Hours]

April-2024

[Max. Marks : 25

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

- Q.1 (a) Define array. How to declare 1-D array in JAVA with a suitable code. (05)  
(b) Explain access modifiers in JAVA. (05)
- OR**
- (a) Define constructor. How it differs from method? Explain constructor overloading with example. (05)  
(b) Explain any two methods of StringBuffer class with a suitable example. (05)
- Q.2 (a) How to achieve multiple inheritance in JAVA? – Explain with a suitable example. (05)  
(b) What are Exceptions? How are they handled in JAVA? Describe try-catch and finally block with an example. (05)
- OR**
- (a) Define thread. Explain thread life cycle with state transition. (05)  
(b) Explain custom exception with a suitable example. (05)
- Q.3 Attempt any **FIVE** out of **SIX**: (Each carries 01 mark) (05)  
(1) Write the syntax for 'enhanced for' loop.  
(2) Define Polymorphism.  
(3) What is the use of 'this' reference?  
(4) What is the use of 'super' keyword?  
(5) List out thread priority constants.  
(6) Define abstract class.

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