MAR_APR 2025 SUMMER EXAMINATION
12329 Bachelor of Computer Application(BCAsci) NEP 2.0
Sub. Name: Object Oriented Programming Using Java
Sub. Code: 109901

Day and Date: JUNE ,12-06-2025
Time: 10:30 AM To 01:30 PM

Total Marks: 80

Instructions:

Special Inst.:   1) Que.1 and Que. 8 are compulsory.
2) Attempt any FOUR questions from Que. No.2 to Que. No. 7.
3) Figures to the right indicate marks.

Q1)   **A] Multiple Choice Questions** (1 mark each)   (10 Marks)   **[20]**
   1] Which of the following is not a feature of Java?
      a) Object-Oriented
      b) Platform Dependent
      c) Secure
      d) Robust
   2] Which operator is used for conditional branching?
      a) &&
      b) ?:
      c) ++
      d) ==
   3] What is the size of a char in Java?
      a) 8 bits
      b) 16 bits
      c) 32 bits
      d) 64 bits
   4] JVM stands for:
      a) Java Verified Machine
      b) Java Variable Method
      c) Java Virtual Machine
      d) Java Vendor Model
   5] Which keyword is used to inherit a class in Java?
      a) implement
      b) extends
      c) inherits
      d) override
   6] Which of these is used to handle exceptions in Java?
      a) include
      b) import
      c) throw
      d) define
   7] Java source code is compiled into:

a) Assembly code
b) Bytecode
c) Machine code
d) Source code

8] What is the default value of an int variable in Java?
a) 0
b) 1
c) -1
d) null

9] Which method is automatically called when an object is created?
a) main()
b) finalize()
c) constructor
d) start()

10] Which class provides wrapper functionality for primitive data types?
a) Abstract
b) Integer
c) Object
d) Class

B] Give Reasons / Short Answer *(Attempt any two)* (10 Marks)
1] Why is Java called platform-independent?
2] What is the use of wrapper classes in Java?
3] Differentiate between throw and throws.

Q2) Describe inheritance in Java. How is polymorphism achieved through method **[10]** overriding and interfaces?

Q3) Explain the basic concepts of Object Oriented Programming. What are the **[10]** advantages and applications of OOP?

Q4) What is exception handling in Java? Explain try, catch, throw, throws, and finally **[10]** with a suitable example.

Q5) Write a Java program to demonstrate the use of constructors and method **[10]** overloading. Explain the output.

Q6) What are packages in Java? How are user-defined packages created and **[10]** accessed? Illustrate with an example.

Q7) Explain the different data types in Java. How are variables declared and initialized? **[10]**

Q8) Write short notes on (Any Four): – [4 x 5 = 20 Marks]   **[20]**
a) Java Tokens
b) Command Line Arguments
c) Typecasting in Java
d) Loops used in Java
e) Multithreading in Java
f) Enumerated Types