



**BCA II Semester Degree Examination, September/October - 2023**

**COMPUTER SCIENCE**

**Object Oriented Concepts using JAVA**

**(NEP)**

Time : 2 Hours

Maximum Marks : 60

**SECTION - A**

**I.** Answer the following sub-questions, each sub-question carries **one** mark. **10x1=10**

1. (a) Who developed JAVA and when ?
- (b) What is Bytecode ?
- (c) Mention the use of this keyword.
- (d) Define File.
- (e) What is a Package ?
- (f) Define Abstract class.
- (g) Expand GUI and AWT.
- (h) Define Applet.
- (i) What is Multithreading ?
- (j) Mention two types of errors in Java.

**SECTION - B**

**II.** Answer **any four** of the following questions, each question carries **five** marks. **4x5=20**

2. Write a short note on Math class.
3. Explain different visibility modifiers in Java.
4. Explain Method Overriding with an example.
5. Write a program in Java to implement Applets.
6. What is try and catch block ? Write syntax and example.
7. Write a note on Constructors.



**SECTION - C**

**III.** Answer **any three** of the following questions, each question carries **ten** marks.

**3x10=30**

8. Explain the features of Java.
9. With an example explain how to declare and define a class and object in Java.
10. What is an inheritance ? Explain Multi-level inheritance with an example.
11. Explain any five GUI components.
12. With a neat diagram, explain the Life Cycle of a Thread.

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