



NP – 318

II Semester B.C.A. Examination, August/September 2023  
(NEP Scheme)

COMPUTER SCIENCE

Paper – 2.2 : Object Oriented Programming Using Java

Time : 2½ Hours

Max. Marks : 60

*Instruction : Answer any four questions from each Part.*



PART – A

I. Answer **any four** questions, **each** question carries **2** marks.

- 1) Define polymorphism.
- 2) What are the Java Tokens ?
- 3) How to create objects ?
- 4) What is swing in Java ?
- 5) Define threads.
- 6) What is package ?

PART – B

II. Answer **any four** questions, **each** question carries **five** marks.

(4x5=20)

- 7) Explain features of Java.
- 8) What is constructor ? Explain constructor overloading with an example.
- 9) What is inheritance ? Discuss various types of inheritance.
- 10) Explain layout manager in Java.
- 11) What is exception handling ? Explain types of exceptions.
- 12) WAP to find the sum of digits of a given number using objects and class.

P.T.O.



## PART – C

- III. Answer any four questions, each question carries 8 marks. (4×8=32)
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| 13) a) Discuss the access specifiers with example.                           | 3 |
| b) Explain different types of looping statements.                            | 5 |
| 14) a) Explain process of applet execution.                                  | 5 |
| b) What are the features of Swing ?  | 3 |
| 15) a) Explain life cycle of thread.   | 5 |
| b) What is array ? Explain one dimension array.                              | 3 |
| 16) What is interface ? Explain different kinds of interface.                | 8 |
| 17) a) Explain the life cycle of applet.                                     | 4 |
| b) Differentiate method overloading and method overriding.                   | 4 |
| 18) a) Write a program to implement arithmetic operations using inheritance. | 5 |
| b) What are the advantages and disadvantages of java beans ?                 | 3 |
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PART – B