



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. **(4×2=8)**
- 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. **(4×5=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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