

S3-361

B.A./B.Sc. DEGREE EXAMINATION – DECEMBER, **2023.**

THIRD SEMESTER

Part – II : COMPUTER SCIENCE/COMPUTER APPLICATIONS

Paper – III : OBJECT ORIENTED PROGRAMMING USING JAVA

(New Regulation 2016 – 17)

(Common Paper for B.A./B.Sc.)

Time : 3 Hours

Max. Marks : 75

PART – A

Answer any FIVE of the following questions. ($5 \times 5 = 25$ marks)

1. What are the applications of OOP?
2. Write short notes on type casting in Java with examples.
3. Write a program to generate fibonacci series of the given number.
4. What is method overloading? Explain it with an example.
5. Explain about final variable and methods with examples.
6. What are the wrapper classes? Explain with examples.
7. What is Synchronization? Explain it with an example.
8. How to create and access a package? Explain it with an example.

PART – B

Answer FIVE of the following questions. ($5 \times 10 = 50$ marks)

9. (a) Define operator. Explain different operators supported by Java
Or
(b) What are the basic concepts of OOP?
10. (a) Discuss about various types of loops in Java with examples.
Or
(b) Explain about different types of constructors with examples.
11. (a) Discuss about Vectors in Java with examples.
Or
(b) How to achieve multiple Inheritance through interfaces? Explain it with an example.
12. (a) What is the use of synchronization? Explain with examples.
Or
(b) How to handle exceptions in Java? Explain it with an example.
13. (a) Define applet. Discuss about the life cycle of an applet with a neat diagram.
Or
(b) Discuss about input and output stream classes with examples.