

Sl.No.

Total No. of Pages : 2

III Semester II Year B.Sc. Examination, Nov/Dec. - 2024

(Scheme : NEP) (CBCS)

COMPUTER SCIENCE

Object Oriented Programming in Java

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer Part A and Part B.

PART - A

Answer the following questions.

[4 × 10 = 40]

1. a) Explain the object - Oriented concepts. [6]
b) Explain various data types in Java. [4]

OR

- c) Discuss the various features of Java programming Language. [5]
d) Illustrate the importance of constructors with program illustration. [5]

2. a) Describe any two types of inheritance with examples, syntax and a program. [7]
b) Differentiate string and string Buffer class methods. [3]

OR

- c) What is a Java Interface? Give a program illustration. [6]
d) What is method Overriding? Give a program example. [4]

3. a) What is an Java applet? Write an applet that draws different shapes. [7]
b) What are basic principles of creating GUI Java applications. [3]

OR

- c) What is an Event? State various event types and how is event handling done in Java. [6]
d) Discuss various Layout Manager with examples. [4]

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4. a) How does Java Perform Text and Binary I/O programming Discuss. [6]
b) Give a program illustration for a Runnable interface and state its significance. [4]

OR

- c) Draw and explain A thread life cycle. [5]
d) How is Exception handling done in Java? Give a program illustration. [5]

PART - B

Answer any four questions :

[4 × 5 = 20]

5. a) Explain labelled break and continue statements with examples.
b) Explain method overloading with example.
c) Explain steps to create and use user defined package
d) Draw and explain applet life cycle
e) Write a program to illustrate multithreading concepts and explain
f) Write short notes on collections in Java.

