Second Semester B.C.A Degree Examinations

May / June 2026

(CBCS NEP Scheme)

NBB 0220: PAPER: OBJECT ORIENTED PROGRAMMING CONCEPTS USING JAVA

Time: 2 hrs *Max. Marks: 60*

Instructions to Students:

1. ***The Students should legibly write Section number along with question numbers within the margin ONLY.***
2. ***The answer without Section number and question numbers will not be valued.***
3. ***Draw neat and labelled diagram wherever necessary.***
4. ***Section – I multiple Choice Questions should be answered in the first page of main answer book and same questions shall not be answered repeatedly.***
5. ***Any identifications like marking, ticking, dots etc., in the options of MCQ (Section – I) on the question paper is strictly prohibited. Do not write anything (except register number) on the question paper.***

SECTION – I

I. Select the most appropriate answer from the options provided: $10 \times 1 = 10$

I - 1) _____ is used to find and fix bugs in the Java programs.

a) JVM

b) JRE

c) JDK

d) JDB

I - 2) Which of the following is not a Java feature ?

a) Dynamic

b) Architecture Neutral

c) Use of pointers

d) Object oriented

I - 3) Which of the following is a reserved keyword in Java ?

a) object

b) strictfp

c) main

d) System

Contd...2

I - 4) In Java, Jar stands for _____

a) Java Archive Runner

b) Java Application resources

c) Java application runner

d) None of these

I - 5) Why is the "super" keyword used for in Java

a) To call a method or constructor of the superclass

b) To create a new instance of a class

c) To hide a super class method

d) To make a method final

I - 6) Which of these is correct way of inheriting class A by class B ?

a) Class B extends class A []

b) Class B inherits class A{}

c) Class B extends A{}

d) Class B extends class A{}

I - 7) What is exception in java ?

a) An error that occurs during compilation

b) An unexpected event that occurs during program execution

c) A warning issued by the java compiler

d) A reserved keyword in the java language

I - 8) Which of these keyword is not a part of exception handling

a) try

b) finally

c) thrown

d) catch

I - 9) Event class is defined in which of these libraries

a) java.io

b) java.lang

c) Java.event

d) java.awt.event

Contd...3

I - 10) Which of these method are used to register a keyboard event listener ?

a) keylistener ( )

b) addlistner ( )

c) add key listener ( )

d) eventkeyboard Listener()



SECTION – II

II. Answer any FIVE of the following: 5 × 3 = 15

II - 1) Explain the concept of oops paradign.

II - 2) Briefly explain concept of JVM and JRE.

II - 3) Explain the concepts of constructor in java.

II - 4) How to create string object in java ? List some string methods.

II - 5) Write a short note on 'Type casting'.

II - 6) Explain with an example abstract class and abstract method.

II - 7) Explain hierarchy of Java exception classes.

II - 8) What is java Bean ? List the advantages and disadvantages of Java bean.

SECTION – III

III. Answer any THREE questions from the following: 3 × 5 = 15

III - 1) Explain the primitive data types with example.

III - 2) Explain how to create and declare java class and object with its syntax and example.

III - 3) Explain the different types of inheritance in Java with example program.

III - 4) Explain the design pattern of Bean properties with its syntax.

III - 5) Explain different types of AWT event classes.

SECTION – IV

IV. Answer the following: 2 × 10 = 20

IV - 1) a) Explain different types of control statements in java and explain any one type of statements with example program.

OR

b) Write a Java program to add two integers and two float numbers. When no arguments supplied, give a default value to calculate the sum, use function overloading. (10)

Contd...4

IV - 2) a) What is Synchronization ? Briefly explain thread Synchronization with example.

OR

b) Write a note on GUI components. Explain any 5 components. (10)

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