BCA (Sem.–5)

PROGRAMMING IN JAVA

Subject Code : UGCA-1932

M.Code : 90315

Date of Examination : 25-11-2023

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Answer briefly :

a) What are the benefits of OOP?

b) How does Java differ from C++?

c) Define Java tokens. Write a history of PHP.

d) What is Java API?

e) How do you declare a variable in Java, give an example.

f) What is the difference between a while and a do-while statement?

g) Define local scope and global scope of a variable with an example.

h) What is the use of static keyword?

i) What is the difference between the String and String Buffer class?

j) Define Multithreading.

SECTION-B

2. a) Write a program to show multilevel and multiclass inheritance.

   b) Write a program to show method overloading and method overriding concepts.

3. Discuss various loop statements and branching statements available in Java. Show their syntax.

4. What are system packages in Java? How the packages are created?

5. How error handling and exception handling are managed in Java? Explain with the help of an example using *try* and *catch*.

6. Define an Applet. How is an Applet different from an application? Describe the lifecycle of an applet.

7. Create a Date class in Java having day, month and year data members. Create constructors for initializing data members, functions for validating date, getting values of data members and displaying the date.