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B.Sc. (GWD) (Sem.–6)
PROGRAMMING IN JAVA
Subject Code : UGCA-1932
M.Code : 92001
Date of Examination : 05-01-23

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.   **Write briefly :**

    a.   How would the number 5 be represented in hex using up-to four characters?

    b.   Define constructor. How do we invoke constructor in JAVA?

    c.   *'Java is platform-independent and portable'.* Justify.

    d.   What is meaning of automatic type conversion?

    e.   What are the differences between the Accesses specifies private and protected?

    f.   What is the use of final keyword in Java?

    g.   What is a Thread Priority? How can you set the priority of a Thread?

    h.   What is the use of this keyword?

    i.   What are the restrictions with static methods?

    j.   What is Garbage Collection? How is it done in Java?

SECTION-B

2. Write a Java Program to add the elements of an Array and to print the elements of an array in reverse order.

3. What is a class? What is the relation between an object and a class? Write a program which shows how to define a class, how to access member functions and how to create and access objects in Java?

4. List out the looping statements available in Java. Explain with example.

5. Explain the different thread states? How can you synchronize thread access to a shared resource? Explain with the help of an example.

6. Write a Java program to read a plain text file.

7. What is an exception? What is exception handling? How do you handle exceptions in Java? Write a program to create and throw your own exception.