B.Sc. (IT) (Sem.–4)

PROGRAMMING IN JAVA

Subject Code : UGCA-1932
M.Code : 79440
Date of Examination : 07-07-22

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. Define the following with examples :

   a) Applet

   b) Cookies

   c) AWT

   d) Final variable and Final method

   e) Servlet.

   f) Internet

   g) Polymorphism

   h) Inheritance

   i) Explain what happens if private is applied to a method in a class?

   j) Write the output of the following statements where int

   $a = -8, b = 4$;

   $++ b << 1,$

   $a >> 2$

SECTION-B

2. a) Java support multithreading? What are the advantages of multithreading?

    b) Explain exception handling? In which situations exception handling can be useful?

3. What is inheritance? What is the effect of declaring a method with the same signature as a method in the superclass?

4. a) Define Class and Static Class. Give an example of each.

    b) Differentiate between call by value and call by reference.

5. What is Java Applet? Create an applet and explain its behaviour.

6. How constructors are provided to the classes in java? Explain with the help of an example.

7. What do you understand by an interface? How is an interface defined? Explain with the help of an example.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.