Credit Based Fifth Semester B.C.A. Degree
Examination, April/May 2022
(Common to all Batches)
JAVA PROGRAMMIMG

Time : 3 Hours

Max. Marks : 100

Note: Answer **any ten** questions from Part – **A** and **one full** question from **each** Unit in Part – **B**.

PART – A   (10×2=20)

1. a) What is byte code ?

   b) What is the size of character data type in Java ? Why ?

   c) What is type conversion ? Write the different ways of type conversions in assignment.

   d) Write the syntax of while loop with an example.

   e) Define an object. Write the purpose of new operator.

   f) Write the purpose of super keyword.

   g) What is an interface? Write the differences between interface and class.

   h) Define Thread. What are the different ways of identifying the thread ended or not ?

   i) Differentiate the keyword throw with throws.

   j) What is Applet ? Write the types of Applets.

   k) Differentiate components and containers.

   l) What are the limitations of AWT components against SWING components ?

PART – B   (4×20=80)

Unit – I

2. a) Explain any seven buzzwords of java.

   b) Explain any three variations of for loop with an example each.

   c) Explain any five primitive data types in java with example.   (7+8+5)

3. a) Explain the java's contribution to internet.

   b) With an example, explain how to read string data through keyboard.

   c) With the syntax and example, explain the working of switch statement.   (9+5+6)

Unit – II

4. a) Define an array. Explain with an example, the steps to create a one dimensional array.
    b) With an example explain the command line arguments.
    c) Explain with an example method overloading.
    d) Explain single level inheritance with suitable example.   (5+5+5+5)

5. a) Explain any five String methods with syntax and example.
    b) With an example, explain variable length arguments to method.
    c) Explain static methods with an example.   (5+5+5+5)
    d) Write a note on method overriding.

Unit – III

6. a) Define package. With an example, explain how to create and import the user defined package.
    b) How do you handle exceptions using multiple catch statements ? Give an example.
    c) With an example explain how the thread created by implementing Runnable interface.   (8+7+5)

7. a) How do you implement an interface ? Explain with an example.
    b) Define Exception. With an example explain the use of finally block in Exception Handling.
    c) What is Synchronization? With an example, explain how synchronization is achieved by synchronized statement.   (6+6+8)

Unit – IV

8. a) Write a note on delegation event model.
    b) With an example explain the usage of BorderLayout
    c) Explain :
        i) JCheckbox   ii) JButton
    d) With an example explain the use of anonymous inner class for event handling.   (6+4+6+4)

9. a) With an example explain the passing parameters to an Applet.
    b) Explain the use of GridLayout.
    c) Explain any three methods of TextField class.
    d) How to create swing applets ? Explain with an example.   (6+4+6+4)