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Sixth Semester B.E. Degree Examination, Feb./Mar.2022

Java Programming

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the structure of a Java Program and its keyword with an example. (10 Marks)
b. List and explain the Java buzzwords. (10 Marks)

OR

- 2 a. How “compile once run anywhere” is implemented in Java? Discuss. (05 Marks)
b. Explain type conversion, with an example. (05 Marks)
c. Explain the basic concepts of object oriented programming. (10 Marks)

Module-2

- 3 a. Explain the following with an example:
(i) Java Arithmetic operator.
(ii) Java logical operators. (10 Marks)
b. Write a Java program to print “Welcome to Java” 5 times. (05 Marks)
c. Explain the java conditional statements with appropriate syntax. (05 Marks)

OR

- 4 a. Write a Java program to find the sum of natural numbers from 1 to 100. (10 Marks)
b. Explain the following with appropriate programming example:
(i) Switch statement.
(ii) The ? : Ternary operator. (10 Marks)

Module-3

- 5 a. Can you overload constructor? Justify with suitable program. (10 Marks)
b. What is array? Write a java program that creates and initializes a five integer elements array. Find the sum and average of its values. (10 Marks)

OR

- 6 a. Explain the following with example:
(i) Method overloading.
(ii) Method overriding. (10 Marks)
b. Explain the following with example:
(i) Final keyword.
(ii) Abstract class. (10 Marks)

Module-4

- 7 a. Define interface. Write a java program to define an interface called area which contains method called compute () and calculate the areas of rectangle ($l \times b$) and circle ($3.142 \times r \times r$) using class rectangle and circle. (10 Marks)
b. Define package. What are the steps involved in creating user defined package with an example. (10 Marks)

OR

- 8 a. Define the concept of multithreading in Java and explain the different phase in the life cycle of a thread, with neat sketch. (10 Marks)
- b. Explain the following with programming example:
- (i) isAlive ()
 - (ii) join ()
- (10 Marks)

Module-5

- 9 a. Explain HTML applet tag attributes. (10 Marks)
- b. With an example, program explain how to pass parameters to Applet. (10 Marks)

OR

- 10 a. What are applets? Explain different stage in the life cycle of an applet. (10 Marks)
- b. Write Java applet that set the background. Color green and foreground color red and output a string message "Welcome to Applet". (10 Marks)

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