R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year II Semester Examinations, May - 2019
JAVA PROGRAMMING
(Common to CSE, IT)

Time: 3 Hours   **Max. Marks: 75**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit.
Each question carries 10 marks and may have a, b, c as sub questions.

PART- A

(25 Marks)

1.a) What is the difference between a class and an object? [2]
 b) Why reserved words are not used in variable name. [3]
 c) What is an abstract class? [2]
 d) What is the difference between implicit and explicit import statement? Which one takes less time for compilation. [3]
 e) What is Daemon Thread? [2]
 f) How many catch blocks and finally blocks can we use with try blocks? Why. [3]
 g) Write about the string Tokenizer. [2]
 h) What is collection in Java? Differentiate between Vector and ArrayList. [3]
 i) What is adapter class? [2]
 j) In what way JButton is better than Button Class explain with an example? [3]

PART-B

(50 Marks)

2.a) What are the fundamental characteristics of OOPs?
 b) Write a program to compute division by 2 without using any arithmetic operator. [5+5]

OR

3.a) Write a program to illustrate a copy constructor so that a string may be duplicated into another variable either by assignment or copying.
 b) Explain the enumerated data types with an example. [5+5]

4.a) Write a program which has an abstract class Solid and implements Cylinder, Cone and Sphere by inheriting from solid to find surface area and volume.
 b) Discuss the various levels of access protection for packages and their implications. [5+5]

OR

5.a) Discuss how java handles overridden methods. In short, how base class member functions can be invoked in a derived class if the derived class also has a member function with the same name.
 b) Explain with an example how multiple inheritance is achieved in Java. [5+5]

6.a) Write a program that counts the number of characters, words and lines in a file. Use exceptions to check whether the file you are reading exists or not. Take file name as a command line argument.

b) Explain the life cycle of a Thread. [5+5]

OR

7.a) Write a simple Timer that can periodically print a timeout message.

b) What happens when a raised exception is not caught by any catch block? Explain with an example. [5+5]

8.a) Explain the different types of JDBC drivers.

b) Write a program to display the bytes of a file in reverse sequence. Provide the name of the file as a command line argument. (Use RandomAccessFile). [5+5]

OR

9.a) Write a program to illustrate the use of hash table class for storing and retrieving employee records.

b) How can we open and read a text file in java? Explain your answer with an example JAVA program. [5+5]

10.a) Write a program to display the month names by JList and display the Days by JComboBox.

b) Explain how the parameters are passing to an applet. [5+5]

OR

11.a) Write a simple calculator applet that can handle basic math functions.

b) Explain about the Hierarchy for the swing components. [5+5]

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