53 (IT 501) JVPR

2018

JAVA PROGRAMMING

Paper : IT 501

Full Marks : 100

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

*Answer **any five** questions.*

1. (a) "Java is called Machine Independent Language" — Justify this statement with proper explanation.

    5

    (b) What is variable length argument in Java ? Explain with example.

    5

(c) Write a program that accepts a shopping list of five items from the command line and store them in vector. Modify the program to accomplish the following :

- to delete an item in the list.

- to delete an item at a specified location in the list.

- to add an item at the end of the list.

- to print the content of the vector.

10

2. (a) Describe the various forms of implementing interfaces. Give examples of Java Code for each case.

5

(b) How to share the data among the functions with the help of static keyword ? Give example. 5

(c) What are different types of packages available in Java ? Explain with examples. 10

3. "Multiple threads try to access the same resources and finally produce erroneous and unforeseen results" — Justify this statement and provide a way to solve the problem.

20

4. (a) Write a Java program to create a try block that is likely to generate three types of exceptions and incorporate necessary catch blocks to catch and handle them appropriately.

10

(b) What are different types of attributes of <APPLET> tag ? Explain with examples. 10

5. (a) Write a program that will count the number of characters, words, and lines in the file. 10

(b) What is meant by event handling in Java ? How does it work ?

10

6. Write a Java program to create a simple calculator with basic +, -, /, * using java swing elements. 20

7. Write short notes on : 20

 (a) Wrapper Classes

 (b) Use of super keyword

 (c) Separators

 (d) Scope of variables in Java.

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