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53 (IT 501) JVPR

2014

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 out of seven.

1. (a) Why synchronization is needed? Explain with example. 10
- (b) Using a small package program, explain the concept of Java package. 10
2. (a) What is the use of socket program in Java? Explain with examples. 10
- (b) Describe the complete life cycle of a thread. 10

Contd.

3. (a) How arguments can be passed to an applet ?
Explain with an example. 5
- (b) What is a finally block ? When and how is it used ? Give a suitable example. 5
- (c) Write a program to input a sentence and print the number of characters found in the longest word of the given sentence. 10
e.g S = "india is my country" then the output should be 7.
4. (a) Write Applets to do the following :
- (i) Drawing polygons
- (ii) Drawing a line graph. 10
- (b) Explain about working with fonts in Java with suitable examples. 10
5. (a) What is layout manager ? Describe the use of GridLayout manager. 10
- (b) Differentiate between AWT and Swing on the basis of working and application. 10

6. The annual examination results of 50 students in a class is tabulated as follows : 20

| Roll No | Sub-A | Sub-B | Sub-C |
|---------|-------|-------|-------|
| | | | |

Write a program to read the data, calculate and display the following :

- (i) Average mark obtained by each student
- (ii) print the roll numbers and average marks of the students whose average mark is above 80
- (iii) print the roll numbers and average marks of the students whose average mark is below 40

7. Write short notes on : 4×5=20

- (a) JDBC
- (b) Servlet
- (c) J2ME
- (d) Event handling.