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53 (IT 501) JVPR

2017

JAVA PROGRAMMING

Paper : IT 501 (Back)

Full Marks : 100

Time : Three hours

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

Answer **any five** questions.

1. (a) What is a package ? How do you design a package ? 5
- (b) Explain dynamic method dispatching with example. 5
- (c) Write a servlet program to display the current time and date. 10
2. (a) Write a Java program to count the number of characters and number of lines in a file. 10

Contd.

- (b) Can try block be nested inside another try block ? Give a suitable example to illustrate your answer. 10
3. (a) When do you use yield (), stop (), and sleep () methods ? Give example. 10
- (b) Write a program to sum up the individual digits of a positive integer, given in the command line. 10
4. (a) Write a program to create a vector with seven elements. Remove element at 3rd position and insert new element at 5th location. Display the updated vector. 10
- (b) What do you mean by synchronization ? Explain with example. 10
5. (a) Explain how database connection can be established using JDBC. 10
- (b) If $x=5$ and $y=-8$, find the value of the following : 10
- $x \& y, x | y, x \wedge y, \sim x, \sim y, x \ll 2,$
 $y \ll 2, y \gg 2, x \gg \gg 1.$

6. Write short notes on :

20

(a) J2ME

(b) Interfaces

(c) Autoboxing and unboxing

(d) Event handling.
