Total number of printed pages-3

53 (IT 501) JVPR

2018

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) Write a program in Java, which will read a text and count all occurrences of a particular word. 10
 - (b) What is a thread? Describe the complete life cycle of a thread.

10

(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.

Contd.

- (b) Explain dynamic method dispatching with example. 10
- 3. (a) If x = 7 and y = -9 find the value of the following : 10 $x \& y, x | y, x \land y, \neg x, \neg y, x << 2, y << 2,$ x >> 2, y >> 2, x >>> 1
 - (b) What is meant by Object-oriented programming? List the constants used in Java. 2+8=10
- 4. (a) Write a program, which will read a string and rewrite a string in the alphabetic order. For example, the word STRING should be written as GINRST. 10
 - (b) Describe the uses of final and super keywords with respect to inheritance.
 10
- 5. (a) What is Layout Manager? Describe the use of Grid Layout Manager.

10

53 (IT 501) JVPR/G



(b) Write applet to do the following :

10

- (i) Drawing a polygon
- (ii) Drawing a line graph.
- 6. Write a Java program to find the smallest distance between two neighbouring numbers in an array. For example, in sequence

4, 8, 6, 1, 2, 9, 4 the minimum distance is 1 (between 1 and 2) 20

7. Write short notes on : 20

(i) JVM

- (ii) Socket Programming
- (iii) Event Handling
- (iv) Command Line arguments.