53 (IT 501) JVPR

2017

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) What is Multitasking? Is multithreading a form of multitasking? 5
 - (b) What is the advantage of having anonymous classes while handling events in Java? Explain with example.
- (c) What are the various dialog boxes available in swing and how are they created?
- 2. (a) What is the difference between JButton and JToggleButton?

(b)	What are		inner f		frames?		What	classes
		used						6

- (c) Write a Java program to demonstrate the execution of a high-priority thread and how it delays the execution of all lower priority threads.
- 3. (a) What is the difference between update () and repaint () method?
 - (b) What do you mean by different parameters of APPLET tag? 6
 - (c) If you create two threads in your program, how many threads actually run? Explain the complete flow of execution of threads inside a program.

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- 4. (a) What is the significance of Applet class in creating an applet? Also explain the hierarchy of Applet class.
 - (b) How is the concept of inner class used for event handling? Explain with example.
 - (c) Write a program that uses thread synchronization to guarantee data integrity in a Multithreaded application.

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- 5. (a) Write a Java program that demonstrates each of the following methods:
 - (i) indexOf () (ii) charAt ()
 - (iii) replace () (iv) substring ()
 - (v) equals ()
 - (b) What are exceptions? How are they handled in Java?
 - (c) What are packages? How are they created and used?
- 6. Write a Java program that implements a simple client/server application. The client sends data to a server. The server receives the data, uses it to produce a result, and then the result back to the client. The client displays the result on the console.
- 7. Write a Java program that determines whether a phrase entered by the user is a palindrome. A palindrome is a phrase that reads the same backward and forward without regarding capitalization or punctuation. For example, "Dot saw I was Tod" is a palindrome.

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