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END SEMESTER EXAMINATION: JANUARY, 2019

IT201
(PT)

JAVA PROGRAMMING

[ET]

Time: 3 Hrs.

Max Marks: 70

Note: Attempt questions from all sections as directed.

Section - A: Attempt any Five questions out of Six . Each question carries 6 marks.

[30 Marks]

- Q1. Explain the architecture of JVM and discuss its role.
- Q2. Write a program in java to print the different tokens from a given string using string tokenizer. Consider the delimiters as ":;".

Given string is: "Title: Java; Publisher: abc-ltd; Price: 350".

- Q3. Why do we need Multithreading in java and how it is different from Multiprocessor?
- Q4. Write a GUI application to show a login and password button on the screen with appropriate listener.
- Q5. Explain the final keyword in java. Discuss the use of final keyword when applied on class, variable and method.
- Q6. How access specifiers in java modifies the behavior of data members at various levels.

Section - B: Attempt any two questions out of three. Each question carries 10 marks.

[20 Marks]

- Q7. (a) What is the role of Package in java? How to create a package and sub package? Illustrate with an example. (5)
 - (b) Write a program in Java to reverse each word of a given 10 words string and sort them in dictionary order. (5)
- Q8. Discuss the concept of applet in java . Write an example program to demonstrate the Applet Life cycle.
- Q9. Write a java program to make use of following methods in a program
 - i) sleep()
 - ii) start()
 - iii) run()
 - iv) wait()

<u>Section - C:</u> Compulsory question.

- Q10. (a) Design a java applet to display a smiley.
 - **(b)** Design a stand-alone desktop-based application to implement a GUI-based calculator to basic operations (+,-,*,/).

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