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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (2015 &amp; Onward) (Sem.-5)

**PROGRAMMING IN JAVA**

Subject Code : BSIT-502

M.Code : 74376

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

**SECTION-A****1. Answer briefly :**

- a. Define Java Virtual Machine.
- b. What are command line arguments?
- c. Differentiate between while and do-while.
- d. Write any two uses of constructors.
- e. What is wrapper class?
- f. Define interface.
- g. Discuss briefly about Naming Convention while creating a Package.
- h. Differentiate between Error and Exception.
- i. What are Applets?
- j. What is ActionListener?



**SECTION-B**

- Q2 a. What are Java Tokens? Discuss the basic structure of a Java program.
- b. Write a Java program to check whether a number is Prime or not. Also explain its output.
- Q3 a. What is meant by method overloading? Explain with the help of suitable example.
- b. Differentiate between Array and String. Also write a program for simple inheritance.
- Q4 Explain the following by writing an appropriate java code :
- a. Creating a Package.
- b. Adding a Class to a Package.
- Q5 a. State and explain the life cycle of an Applet.
- b. What is meant by Graphics programming? Explain.
- Q6 a. Demonstrate the use of try, catch and finally block.
- b. Explain the application of AWT Package.
- Q7 a. Discuss various mouse events along with their respective listeners.
- b. Demonstrate the use of FileInputStream and FileOutputStream by writing a java code snippet.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**