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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (IT) (2012 to 2017) (Sem.–5)

**PROGRAMMING IN JAVA**

Subject Code : BTIT-502

M.Code : 70595

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

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

**SECTION-A**

**Answer briefly :**

- 1) Why Java is called platform independent language?
- 2) What is abstract class?
- 3) What is a reference variable in java?
- 4) What is the purpose of garbage collector in java?
- 5) What is the need of super keyword?
- 6) What is run time exception? Give example.
- 7) What is the difference between process and a thread in java?
- 8) What is JDBC?
- 9) Define server socket.
- 10) What are command line arguments in java?

### SECTION-B

- 11) Write a program in java to print first five elements of a Fibonacci series using for loop.
- 12) What is multithreading? How java implements its thread model?
- 13) Write a program in java to copy the string from one file into another file.
- 14) Explain briefly about the access modifiers in java and their usage.
- 15) Write a program to demonstrate the different types of inheritance in java.

### SECTION-C

- 16) What is exception handling? Discuss different types of exceptions and Write a java program to illustrate the use of try and multi-catch statement.
- 17) What are different types of operators used in java? Write a program in java to demonstrate the concept operator precedence.
- 18) a) Write a short note on :
  - a. Applet
  - b. Importing of package
  - c. "this" keyword
- b) Write a short note on :
  - a. Method overloading
  - b. Finalize method
  - c. Type casting

**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.**