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B.Tech. (IT) (2011 Onwards) (Sem.-5) PROGRAMMING IN JAVA

Subject Code: BTIT-502 M.Code: 70595

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

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

SECTION-A

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Q1 Answer briefly:

- a) Use of wrapper class.
- b) Java tokens.
- c) String buffer.
- d) Limitations of Java programming language.
- e) Layout manager.
- f) Socket.
- g) Difference between throw and throws.
- h) This pointer.
- i) List the different stages in the life cycles of a thread.
- j) What are applets?



SECTION-B

- 2. Explain Java garbage collection mechanism.
- 3. How packages are created and accessed in Java. Briefly explain the naming convention in packages?
- 4. Explain the steps involved in creating and executing a java program.
- 5. Write a Java code that generates custom exception if any value from its command line arguments is negative.
- 6. Explain the life cycle of applet.

SECTION-C

- 7. Write a program in Java to find nth prime number where n is any integer and should be taken as input from the user.
- 8. Explain the difference between method overriding and method overloading with the help of suitable example.
- 9. What is multithreading in Java? Explain the inter thread communication with the help of suitable example.

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.

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