

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (IT) (Sem.-5)
PROGRAMMING IN JAVA
Subject Code : BTIT-503-18
M.Code : 78258

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) What is JVM?
- 2) What are limitations of Java programming language?
- 3) Why Java is platform independent language?
- 4) Define abstraction.
- 5) What is the difference between final and finally?
- 6) Why Java does not support multiple inheritance?
- 7) What is the need of super keyword in Java?
- 8) What are checked exceptions?
- 9) What is difference between thread and a process?
- 10) What is a Socket and advantages of Java Sockets?

SECTION-B

- 11) Explain the steps involved in creating and executing a Java program.
- 12) Write a program in Java to demonstrate Constructors.
- 13) Explain about interfaces. How they are different from the abstract classes?
- 14) Explain Multithreading. How Java implements its Thread model?
- 15) What is an Applet? How applets are different from standalone Java application programs? Discuss.

SECTION-C

- 16) Explain in detail that makes Java the most popular, preferable language over the years.
- 17) What is function overloading? Is operator overloading is possible in Java? Write a program to show the concept of Function overloading using inheritance.
- 18) What are packages? What is the utility of packages? How packages are created, imported, and used? Discuss with the help of an example. Also discuss package access protection.

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.