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Total No. of Questions : 18

B.Tech. (ECE) (Sem.-5)

JAVA PROGRAMMING

Subject Code : UC-BTEC-901F-18

M.Code : 78761

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 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

Write briefly :

1. What do you understand from 'public static void main (String [] args)'?
2. Differentiate between JVM, JRE and JDK.
3. What are access modifiers? List various types of access modifiers in Java.
4. What are wrapper classes in Java?
5. Why is Java considered portable language?
6. What is the difference between 'StringBuffer' and 'StringBuilder'?
7. How to determine factorial of an integer using Java?
8. What is Object Oriented Programming approach?
9. What is lambda expression in Java? Give an example.
10. What are encapsulation and polymorphism in Java?

SECTION-B

11. What are the advantages and disadvantages of Java over C++?
12. Write a Java program to check if the given number is prime number or not?
13. What is inheritance in Java? Write a program to showcase inheritance.
14. What are different ways of creating objects in Java? Give examples.
15. Write a Java program to swap two numbers without using a third variable?

SECTION-C

16.
 - a) What are data types in Java and their required memory sizes to store values?
 - b) List various operators in Java and give their precedence order.
17.
 - a) What is function overloading in Java?
 - b) Why does Java not support (i) multiple inheritances and (ii) pointers?
18.
 - a) What is applet in Java? Discuss its life cycle.
 - b) What are different steps involved in database connectivity?

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.