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Paper Code : OE-EC704A Web Technology
UPID : 007716

CS/B.TECH(N)/ODD/SEM-7/7716/2023-2024/1019

Time Allotted : 3 Hours

Full Marks :70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 x 10 = 10]

- (i) Which package has light weight components?
- (ii) What is the difference between exception and error in java?
- (iii) How to split string in Java?
- (iv) What classes are available in the Java IO file classes API?
- (v) Why Packages are used in Java?
- (vi) What happens when an applet is loaded?
- (vii) How many tags can be used to separate section of texts?
- (viii) What are pass by references and pass by value?
- (ix) What is meant by method overriding?
- (x) What methods would a class that implements the java.lang.CharSequence interface have to implement?
- (xi) How does the final block differ from finalize() method?
- (xii) How to convert string to char and vice versa?

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 x 3 = 15]

- 2. Write a program to read and display the array elements in ascending order. [5]
- 3. Give the differences between abstract class and Interface. [5]
- 4. Write a java program to find the factorial value of the given number using user defined package concept. [5]
- 5. Briefly explain Java exception hierarchy. [5]
- 6. Write the difference between String and String Buffer classes. [5]

Group-C (Long Answer Type Question)

Answer any three of the following :

[15 x 3 = 45]

- 7. (a) What is String Buffer? How does String class differ from the String Buffer class? [5]
- (b) What is arraycopy method? Explain with syntax. [5]
- (c) What are the methods under Util.Arrays? Use the array sort method to sort the given array. [5]
- 8. (a) Write a program to read single character from a file. [5]
- (b) Write a program in the Buffered Output Stream object which can be connected to the File Output Stream object. [5]
- (c) Write the methods of Sequence Input Stream class. [5]
- 9. (a) How does polymorphism implemented in Java? Give example. [5]
- (b) How to add new class to a package? Explain with an example. [5]
- (c) "Java is purely Object Oriented" - Justify the statement. [5]
- 10. (a) Design an applet which displays three equal sized circles one below the other and fill them with orange, white and green color respectively. [5]
- (b) How to pass parameter to an applet? Write an applet to accept account number and balance. [5+5]
- 11. (a) Write a Java program to interchange the values without using temporary variable. [5]
- (b) Give the structure of a Java program. How Java is highly portable? [5+5]

*** END OF PAPER ***