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Question Paper Code: 59272

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

Open elective

Civil Engineering

15UCS972 - PROGRAMMING WITH JAVA

(Common to ECE, EEE, EIE, Mechanical, IT, Chemical)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 1 = 5 Marks)

1. State the elements of forloop: for(int i=1; i<=10; i++) CO1- R
(a) for (initialization;Termination;Increment); (b) for (Termination;initialization;Increment);
(c) for(Increment;Termination;initialization); (d) for(initialization;Increment;Termination);
2. Which of the following package stores all the standard java classes? CO2- R
(a) lang (b) java (c) util (d) java.packages
3. Which of these is used to perform all input & output operations in Java? CO3- R
(a) Streams (b) Variables (c) Classes (d) Methods
4. Which keyword is used to monitor statement for exception? CO4- R
(a) try (b) catch (c) throw (d) throws
5. Which of the following package stores all the simple data types in java? CO5- R
(a) lang (b) java (c) util (d) java.packages

PART – B (5 x 3= 15 Marks)

6. Write a simple Java program to apply Boolean Data Type (True/False).. CO1-U
7. What's the difference between an interface and an abstract class? CO2- R
8. Write a Java program to read from a file using Byte stream CO3- R
9. What is an event handler in swing? CO4- R

10 What are the differences between Observable and Observer?

CO5- U

PART – C (5 x 16= 80Marks)

- 11 (a) Program to make for addition, subtraction, multiplication and division using switch case in Java. CO1- U (16)
- Or
- (b) (i) Write a Java Program to show the Factorial numbers. CO1- Ana (8)
(ii) Write a Java Program to show the given number is Palindrome or not CO1- Ana (8)
- 12 (a) What is Package? Give a detailed description for creation of packages in Java with an example. CO2- Ana (16)
- Or
- (b) List the different contexts in which the final keyword is used in Java program. CO2- Ana (16)
- 13 (a) How to declare and initialize a string in java and also discuss the different string handling functions with suitable examples. CO3- Ana (16)
- Or
- (b) Explain the concepts of throws with example. CO3- U (16)
- 14 (a) Demonstrate JCombo Box, JRadio Button, JCheckBox in Java Swing with example for each. CO4- Ana (16)
- Or
- (b) Develop an Online Exam Project in Java Swing without database. CO4- Ana (16)
- 15 (a) Write a java program to remove leading and trailing space from string using trim method of Java String class CO5- U (16)
- Or
- (b) Explain the following: Auto Boxing, Type Wrappers, Math Class, Sting Buffer Class with suitable example CO5-U (16)