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Question Paper Code: 59801

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Information Technology

15UIT901- PROGRAMMING PARADIGMS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 1 = 5 Marks)

1. _____ cannot be instantiated. CO1- R
(a) Interface (b) Abstract classes (c) Classes (d) Methods
2. Which of the following datatype can be shared by all instance of its class? CO2- R
(a) Public (b) Inherited (c) Static (d) Friend
3. What are passive controls that do not support any interaction with the user? CO3- R
(a) Choice (b) List (c) Labels (d) Checkbox
4. Which of these type parameters is used for a generic class to return and accept a number? CO4- R
(a) K (b) T (c) N (d) V
5. Which will contain the body of the thread? CO5- R
(a) run(); (b) start(); (c) stop(); (d) main();

PART – B (5 x 3= 15 Marks)

6. Write short notes on reflection. CO1-U
7. Give any four applications of C++. CO2- U
8. Why Swing components are called lightweight components? CO3- R
9. What are Bounded types in Generics? CO4- R
10. Differentiate between process and thread. CO5- R

PART – C (5 x 16= 80 Marks)

11. (a) Develop a Java Program that calculates the next Palindrome number for a given number. CO1- App (16)

Or

- (b) Exp Develop a Java Program that identifies a unique element from a given set of array elements. i.e., Given an array which contains all elements occurring k times, but one occurs only once. Find that unique element in detail about the Text based communication in e-learning techniques. CO1- App (16)

12. (a) Write a python program to find out the first non repeating character in a string. Example: Given String is “hi hello” Output is” i “. CO2- App (16)

Or

- (b) Write a java program to check whether the given strings are anagram to each other. Example: String1=”life” string2=”file”. Here string1 and string2 are anagram of each other. CO2- App (16)

13. (a) Develop a Java program to create a JFrame using Inheritance. CO3- App (16)

Or

- (b) Develop a java Program to create a simple calculator with basic +,-,/,* using java swing elements. CO3- App (16)

14. (a) Develop a java program that demonstrates the Java exception propagation. CO4- App (16)

Or

- (b) Develop a java program that demonstrates Multiple catch blocks in Exception handling mechanism. CO4- App (16)

15. (a) Compare and Contrast the differences between Daemon threads and User threads in Java. CO5- U (16)

Or

- (b) Compare and Contrast the differences between wait() and Join() methods in Java . CO5-U (16)