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**Question Paper Code: 53804**

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Third Semester

Information Technology

15UIT304 - OBJECT ORIENTED PROGRAMMING

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

**(Answer any six of the following questions)**

1. Which datatype is used to represent the absence of parameters? CO1- R  
(a) Int                      (b) Short                      (c) Void                      (d) Float
2. If different properties and functions of a real world entity is grouped or embedded into a single element, what is it called in OOP language? CO1- R  
(a) Inheritance              (b) Encapsulation              (c) Polymorphism              (d) Data abstraction
3. Which keyword should be used to declare static variables? CO2- R  
(a) Static                      (b) Stat                      (c) Const                      (d) Common
4. Tell which function is used to determine whether some objects of the class have been created or not. CO2- R  
(a) Static member function                      (b) Dynamic member function  
(c) Friend function                      (d) Function Overloading
5. Which class is used to design the base class? CO3- R  
(a) Base class                      (b) Abstract class                      (c) Derived class                      (d) Super class
6. Which member can never be accessed by inherited classes? CO3-R  
(a) Private member function                      (b) Public member function  
(c) Protected member function                      (d) All can be accessed
7. Which is used to create a pure virtual function? CO4- R  
(a) =0                      (b) \$                      (c) &                      (d) !

8. The undefined behavior in C++ program is avoided by\_\_\_\_\_ CO4-R  
 (a) Constructor (b)Virtual (c) Destructor (d) Virtual Destructor
9. Which operator is used to insert the data into file? CO5- R  
 (a) << (b) >> (c) # (d) !=
10. Which are the two blocks that are used to check error and handle the error? CO5-R  
 (a) Try and catch (b) Trying and catching  
 (c) Do and while (d) TryDo and Check

PART – B (3 x 8= 24 Marks)

**(Answer any three of the following questions)**

11. Write a function repstr() which takes a string and an integer value as its arguments. The string value is passed as a reference variable. This function reverses the string and prints it to the number of times equal to the integer value which is passed as the second argument to that function. CO1- App (8)
12. Define a class employee. Take name, designation, age, DoB, address and years of experience as data members and getdata and show data as methods. Now enter the details of 10 employee using array of objects. CO2- U (8)
13. Write a C++ program using operator overloading to find the difference of two complex numbers. ( $C3 = C1 - C2$ ) where the name of the class is Complex. CO3- App (8)
14. Explain with the help of an example why templates are used in programming? CO4- U (8)
15. Describe the various approaches by which we can detect the end-of-file condition successfully. CO5- U (8)