A   Reg. No. : | | | | | | | | | |

Question Paper Code: 93C04

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023

Third Semester

Computer Science and Business System

19UCB304 - OBJECT ORIENTED PROGRAMMING

(Regulation 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. How much bytes are occupied by int?   CO1- R

    (a) 4   (b) 2   (c) 8   (d) 16

2. Which of the following approach is followed by the c++   CO1- R

    (a) top-down   (b) top-bottom   (c) bottom-up   (d) Procedural

3. The member in class by default are   CO1- U

    (a) Protected   (b) Private   (c) Public   (d) Static

4. Which one of the following is not a member of the class?   CO2- R

    (a) Static Function (b) Virtual Function (c) Constant Function (d) Friend Function

5. How many parameters does a default constructor require?   CO1- R

    (a) 1   (b) 2   (c) 0   (d) 3

6. How many Destructors are allowed in a Class?   CO1- U

    (a) 1   (b) 2   (c) 3   (d) Any number

7. Function overloading is also similar to which of the following?   CO1- R

    (a) operator overloading   (b) constructor overloading

    (c) destructor overloading   (d) function overloading

8. Virtual functions are mainly used to achieve _____   CO1- R

    (a) Compile time polymorphism   (b) Interpreter polymorphism

    (c) Runtime polymorphism   (d) Functions code polymorphism

9. Which of the following is used for generic programming? CO1- R

(a) Virtual functions   (b) Modules   (c) Templates   (d) Abstract Classes

10. Which keyword is used to throw an exception? CO1- R

(a) try   (b) throw   (c) throws   (d) except

PART – B (5 x 2= 10 Marks)

11. Define object oriented programming   CO1- U

12. Describe Classes in C++ with example.   CO1- U

13. Write program to implement constructor overloading.   CO3- U

14. What is operator overloading?   CO1- U

15. Distinguish between the terms class template and template class.   CO3- Ana

PART – C (5 x 16= 80 Marks)

16. (a) Explain the feature of Object oriented programming in detail.   CO1- U   (16)

Or

(b) Explain the Control structures in C++ with an examples?   CO1- U   (16)

17. (a) Identify the concepts of function prototyping and inline function with appropriate C++ program.   CO2- Ana   (16)

Or

(b) Explain about the Arrays of Objects, Objects as Function Arguments and Friend Functions with example program.   CO2 -Ana   (16)

18. (a) Identify the difference between constructors and destructors How many types of constructor? Write program to implement the copy constructor.   CO2- Ana   (16)

Or

(b) What is inheritances? Discuss the syntax and rules of Types of inheritances in C++. How can you pass parameters to the constructors of base classes in multiple inheritances? Demonstrate with suitable example.   CO3- Ana   (16)

93C04

19. (a) List the operators that cannot be overloaded and explain in detail   CO4- App   (16)
        about operator overloading with example.

<div align="center">Or</div>

    (b) Define polymorphism and Explain Virtual functions with example.   CO4- App   (16)
        Identify the difference between static & dynamic binding?

20. (a) Explain with example how can a class template be created.   CO1- U   (16)

<div align="center">Or</div>

    (b) What is exception handling? Explain types of exception handling   CO5- U   (16)
        and explain suitable example.

93C04

93C04