INTEGRATED MSC DEGREE EXAMINATION, JUNE 2024

Second Semester

CORE - ICSC2CR2 - OBJECT ORIENTED PROGRAMMING USING C++

INTEGRATED MSC COMPUTER SCIENCE-ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING & INTEGRATED MSC COMPUTER SCIENCE- DATA SCIENCE

2020 Admission Onwards

E11D47A2

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What do you mean by dynamic binding? How is it useful in OOP?

2. Define the rules of naming variables in C++.

3. What are the main Decision making Statements?

4. What is function Overloading?

5. What is a Member function?

6. Write the purposes of public private protected Keywords.

7. Can we have a constructor with default arguments justify your answer?

8. What are the two types of type conversions in c++?

9. When do yu make a class 'virtula'?

10. Differentiate void pointer and wild pointers.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Describe symbolic constants with suitable examples.

12. Explain memory management operators in C++.

13. Write the purposes of atleast 10 library functions.

14. What are the benefits of using Default Arguments in C++

15. With an example explain Array of Objects.

16. Write a note on Objects as function arguments.

17. What are the charaterstics of distructors?

18. Describe abstract class with example.

<div align="right">(6×2=12 weightage)</div>

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. What is object-oriented programming? How is it different from the procedure-oriented programming?

20. Desribe Inline functions in C++

21. Describe in detail - Static member variables and functions

22. Expalin different types of polymorphism with suitable examples.

<div align="right">(2×5=10 weightage)</div>