K22U 3615

Reg. No. : ....

Name : ....

Third Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, November 2022
(2019 Admission Onwards)
GENERAL AWARENESS COURSE IN COMPUTER SCIENCE
3A11 CSC : Programming in C++

Time : 3 Hours

Max. Marks : 40

PART – A
(Short Answer)

Answer **all** questions :

(6×1=6)

1. What is an object ?

2. When a = 6, c = ++a, what will be the value of c ?

3. Explain the operator that can be used in C++ to allocate dynamic memory.

4. Explain the pointer – this.

5. What is the meaning of base address of the array ?

6. Define pure virtual function.

PART – B
(Short Essay)

Answer **any 6** questions :

(6×2=12)

7. What is the difference between overloaded functions and overriding functions ?

8. Mention the storage class's names in C++.

9. What is an abstract class in C++ ?

10. What are the different ways of passing parameters to the functions ? Explain.

11. Write operators that cannot be overloaded.

12. Differentiate between new and malloc( ).

13. What is polymorphism C ++ ?

14. What is the difference between fstream and ofstream in C++ ?

PART – C
(Essay)

Answer **any 4** questions :   (4×3=12)

15. What is a file ? Explain it with example.

16. What do you mean by data members and member functions explain with example ?

17. Explain the types of inheritance supported in C++.

18. What is a friend function ?

19. Explain inline function with suitable example.

20. Calculate the average of all the elements present in the array.

PART – D
(Long Essay)

Answer **any 2** questions :   (2×5=10)

21. Explain OOPs concepts in detail.

22. What is function overloading and operator overloading ? Explain it with suitable example.

23. Define constructors. What are the three types of constructors ?

24. Write a program to read text from the keyboard and write it in to a file.

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