

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY - 2023

COURSE NAME: B.Sc.-MATHEMATICS

MAXIMUM MARKS: 70

SEMESTER: VI

TIME : 3 HOURS

PART - III

OBJECT ORIENTED PROGRAMMING WITH C++

SECTION - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES. (K2)

6. What is C++?
7. What is the size of empty class?
8. When is Constructor executed?
9. What is virtual inheritance in C++?
10. How are compile time polymorphisms implemented in C++?

SECTION – B (5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Write a short note on input operator. (OR)
b) Explain operators in C++.

12. a) Discuss the main function. (OR)
b) How to define member functions?

(CONTD....2)

13. a) Explain friendly functions.
(OR)
b) Write a short note on copy constructor.

14. a) Define operator overloading.
(OR)
b) Write a short note on virtual functions.

15. a) Write rules for Virtual Functions.
(OR)
b) What are the applications of This Pointer.

SECTION - C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No : 17 to 21) (K4 (Or) K5)**

16. Explain control structures in C++.
17. Explain : (i) Tokens (ii) Keywords (iii) Identifiers and Constants
18. Discuss function Prototyping.
19. Explain Destructors with an example.
20. Write rules for overloading operators.
21. Explain Pointers to Object.

ETHICAL PAPER