Second Semester B.C.A. Degree Examination, December 2021

Career Related First Degree Programme under CBCSS

Group 2(b) — Computer Applications

Core Course

CP 1242 : OBJECT ORIENTED PROGRAMMING

(2020 Admission Regular)

Time : 3 Hours   Max. Marks : 80

SECTION – A (Very short answer)

(one Word to Maximum of two Sentences. Answer all Questions).

1.   What is an object?

2.   What is meant by polymorphism?

3.   What does public inheritance mean?

4.   Explain the use of getline( ) function.

5.   Which function is used to detect end of file?

6.   Define constant variable.

7.   What is containership?

8. Define Dynamic binding.

9. What are Keywords?

10. How is late binding implemented in C++?

<div align="right">(10 × 1 = 10 Marks)</div>

SECTION – B (Short answer type)

(Not to Exceed **One** Paragraph. Answer **any eight** Questions. Each question carries 2 marks).

11. Define Do-nothing function.

12. How do you declare an object in C++?

13. Name any two unformatted output functions frequently used with out object

14. What are the advantages of inheritance?

15. Explain any two applications of OOPs.

16. What are abstract classes?

17. Difference between private and protected access specifies.

18. Explain access limits of class members.

19. What is Multi path inheritance?

20. In what situations inline function does not work?

21. Write note on void pointer.

22. Explain the syntax and working of 'for loop'?

23. Explain any two advantages of OOPS.

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24. What is the use of seekp() function?

25. What is the purpose of a function prototype?

26. Write note on stream classes.

(8 × 2 = 16 Marks)

SECTION – C (Short essay type)

(Not to Exceed **120** words. Answer **any six** Questions. Each question carries **4** marks).

27. Write note on exception handling in C++.

28. Explain insertion and extraction operator with suitable example.

29. Explain with a neat diagram of data members and member functions in memory.

30. Explain conversion from one class type to another class type with the support of an example.

31. Explain while and do-while loops in C++.

32. Explain the rules for overloading operators.

33. Explain hybrid inheritance with an example.

34. Explain default argument with suitable example.

35. What is a virtual base class? Explain with suitable.

36. Explain the operators that cannot be overloaded using friend function.

37. Write note on file modes.

38. Differentiate multiple and multi level inheritance.

(6 × 4 = 24 Marks)

SECTION – D (Long essay type)

(Answer **any two** Questions. Each question carries **15** marks).

39. Describe types of constructors with suitable example.

40. Explain data types in C++.

41. Discuss unary operator overloading using friend function with an example.

42. Write a note on virtual function with an example program.

43. Explain decision making statements in C++.

44. What are the methods used to pass values to a function.

(2 × 15 = 30 Marks)

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