E 1247 (Pages : 2) Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2015

Third Semester

Vocational Course—C++ PROGRAMMING

(For the Vocational Subject Computer Application of Model-II Physics)

[2013 Admissions onwards]

Time : Three Hours Maximum : 60 Marks

Part A (Short Answer Questions)

Answer **all** *questions.*
Each carries 1 *mark.*

1. Distinguish between C and C++.
2. State the C++ program features.
3. Name the mechanism which allows a class A to inherit properties of a classB.
4. Name the operator which cannot be overloaded in CPP.
5. What are the two categories of Turbo C++ graphics ?
6. Which concept of OOP allows hiding of both the data fields and the methods that act on the data, inside the object.
7. What does getmaxx( ) and getmaxy( ) do in CPP graphics ?
8. What is the use of line ( ) function ?

(8 × 1 = 8)

Part B (Brief Answer Questions)

Answer any **six** *questions.*
Each carries 2 *marks.*

9. Explain Inheritance.
10. Explain any *two* arithmetic operators with examples.
11. What do you understand by Polymorphism ? Give an example.
12. What is scope resolution operator ?
13. What is ternary operator ? Explain.
14. What are different graphical input devices ?
15. What are the advantages and disadvantages of using friend functions ?
16. Mention the use of moveto( ), outtext( ) and settextstyle( ).

17. Explain the difference between prefix and postfix incremental operator.

18. What is the use of closegraph( ) function ?

(6 × 2 = 12)

Part C (Descriptive/Short Essay Type Questions)

Answer any **four** *questions.*
Each carries 4 *marks.*

19. Bring out are the salient features of CPP ?

20. Differentiate break and continue statement with example.

21. Bring out the use of this pointer ? Explain.

22. Explain pass by value and pass by reference.

23. Explain how to access base class member function.

24. Discuss hybrid inheritance.

(4 × 4 = 16)

Part D (Long Essay)

Answer any **two** *questions.*
Each carries 12 *marks.*

25. Discuss on the basic concepts of OOPs.

26. Describe about reference arguments.

27. Define base class student with two derived class internal and external and a final derived class result. Write a program for this with your own data.

28. Explain with a program how to access constructor and destructor in inheritance.

(2 × 12 = 24)