E 1245 (Pages : 2) Reg. No.....

Name.....

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

Third Semester

Vocational Course—CONCEPTS OF OBJECT ORIENTED PROGRAMMING

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

[2013 Admission onwards]

Time : Three Hours Maximum : 60 Marks

Part A (Short Answer Questions)

Answer **all** *questions.*
1 *mark each.*

1. What is OOP ?
2. What is an input operator ?
3. How variables are declared in C++ ?
4. How do structures in C and C++ differ ?
5. What is the similarity between a structure and enumeration ?
6. What are the advantages of function prototype in C++ ?
7. When do we need to use default arguments in a function ?
8. How objects are created ?

(8 × 1 = 8)

Part B (Brief Answer Questions)

Answer any **six** *questions.*
2 *marks each.*

9. List the features of procedure oriented programming.
10. How does a main () function m C++ differ from main () in C ?
11. Explain the cascading of operators in C++.
12. Explain the creation of objects.
13. What are the applications of void data types in C++ ?
14. What are the advantages of function prototype in C++ ?
15. What is the significance of an empty parenthesis in a function declaration ?
16. Char is often treated as integer data type. Why ?

Turn over

17. How a member function is define outside the class definition ?

18. How arrays are used as member variables in a class ?

(6 × 2 = 12)

Part C (Descriptive/Short Essay Type Questions)

Answer any **four** *questions.*

19. Describe how data are shared by functions in a POP.

20. Differentiate between conditional and unconditional executions. Illustrate with examples.

21. What is a nested loop ? Illustrate.

22. (i) How is a structure created ?

    (ii) Give the syntax of structure declaration.

23. How is a structure declaration renamed ? Define an array of structures.

24. Distinguish between formal arguments and actual arguments.

(4 × 4 = 16)

Part D (Long Answer)

Answer any **two** *questions.*
12 marks each.

25. Discuss the parts of a C++ program.

26. Compare and contrast OOP and POP.

27. Write a program to sum the sequence $1+\left(\frac{1}{2}\right)^2+\left(\frac{1}{3}\right)^3+\left(\frac{1}{4}\right)^4+\cdots$.

28. Discuss on arithmetic operators in C++.

(2 × 12 = 24)