K15U 0330

Reg. No. : ....

Name : ....

III Semester B.Sc. Degree (CCSS – 2014 Admn. – Regular) Examination, November 2015
GENERAL COURSE IN COMPUTER SCIENCE
3A11CSC : Programming with C++

Time: 3 Hours   Max. Marks : 40

SECTION – A

1. **One** word answer :   (8×0.5=4)

   a) Variables of a class are called _____

   b) _____ is a variable which holds the address of another variable.

   c) _____ are class members that are hidden from the outside world.

   d) Dynamic allocation of memory is done by _____ operator.

   e) The operator and when placed before a variable returns _____

   f) The _____ pointer stores the address of the object currently invoking a member function.

   g) _____ function takes objects as arguments.

   h) _____ gives a new meaning to the existing C++ operators.

SECTION – B

Write short notes on **any seven** of the following questions :   (7×2=14)

2. What is a class ? Explain with an example.

3. Explain destructors with an example.

4. Compare "struct" and "class" keyword of C++.

5. Define the static members of a class.

6. What are the characteristics of friend function ?

7. What is the difference between call by value and call by reference ?

8. Difference between goto and continue statement.

9. What is a pointer ?

10. What are file modes ? Describe the various file mode options available.

11. What is a virtual function ?

SECTION – C

Answer **any four** of the following questions : (4×3=12)

12. Explain the merits of OOPs over Structured Programming.

13. What is data abstraction ? How it is implemented in C++ ? Explain with example.

14. Explain inline function with example.

15. What is the benefit of copy constructor ? Justify your answer with example.

16. Write a program to find elder person using THIS pointer.

17. Explain function overloading with examples.

SECTION – D

Write an essay on **any two** of the following questions : (2×5=10)

18. Explain the basic concepts of Object Oriented Programming.

19. What is inheritance ? Explain the different kinds of inheritance with example.

20. Write about files in C++.

21. Explain operator overloading.