Roll No .

CS - 112

B.E. (All Branches), I Year I Semester
Examination, December 2015
Choice Based Credit System (CBCS)
Fundamentals of Computer Science and Engineering

Time : Three Hours

Maximum Marks : 60

Note : i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Define Software. What is the difference between the system software and application software?
   b) Draw the block diagram of a computer. Explain each component.

2. a) What is Operating System? What are the different functions of an operating system?
   b) What is Flowchart? Explain different symbols used in Flowcharts.

3. a) Explain the significance of array. What are the different types of arrays?
   b) What are the salient features of Object Oriented Programming? Explain.

4. a) What is class and object in C++? Explain with example.
   b) What is a destructor? What is the importance of a destructor?

5. a) What is computer networking? Write its advantages.
   b) Compare the OSI and TCP/IP models.

6. a) Define the terms data, information, knowledge and database.
   b) What are the different kinds of data models? Compare them.

7. a) What is cloud computing? Enlist and explain characteristics of cloud computing.
   b) Discuss the following terms:
      i) Denial of services
      ii) Hacking
      iii) DBA

******