BE - 205

B.E. I & II Semester Examination, June 2013
Basic Computer Engineering

Time : Three Hours

http://www.rgpvonline.com/   *Maximum Marks : 70*

Note: Attempt one question from each unit. All questions carry equal marks.

Unit - I

1. a) Discuss classification of computers.
   b) Distinguish between :
       i) Input unit and output unit   ii) CPU and ALU   iii) Data and information.

OR

2. a) What is a register? How are registers used in the arithmetic logic and supervisory-control units of a CPU?
   b) Discuss the major ethical issues in the field of computing?

Unit - II

3. a) Define operating system. Explain briefly the functions performed by an operating system.
   b) Explain the following terms:
       i) Process   ii) Process state   iii) Process control block.

OR

4. a) Compare procedure oriented programming and object oriented programming.
   b) Write and explain the features of object oriented programming language.

Unit - III

5. a) What do you understand by precedence and associativity of operators. Give hierarchy and precedence of operators available in C++ in tabular form.
   b) Compare the following :
       i) Structures and unions   ii) Objects and classes   iii) Base class and derived class

OR

6. a) What are constructors? How many types of constructors are there in C++? Give examples of each type.
   b) Explain function over loading with the help of a program.

Unit - IV

7. a) Compare file oriented approach and data base approach.
   b) Define the following terms:
       i) Data Independence   ii) Network data model

OR

8. a) Explain the roles and functions of DBA.
   b) What is meant by Data definition language? Give any four DDL commands.

Unit - V

9. a) Discuss OSI model of Networking.
   b) Briefly discuss about the following devices:-
       i) Router   ii) Repeater   iii) Bridge

OR

10. a) Give the TCP/IP protocol architecture structure. Also give the functions of each layer.
    b) Write short notes on the following :-
        i) World wide web   ii) Network security

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