

Total No. of Questions : 10] [Total No. of Printed Pages : 3

Roll No.

BE-205(GS)

B. E. (First/Second Semester)

EXAMINATION, June, 2011

(Common for all Branches)

BASIC COMPUTER ENGINEERING

Time : Three Hours

Maximum Marks : 70

Minimum Pass Marks : 22 (D Grade)

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

Unit-I

1. (a) What is the purpose of memory in a computer ? What are volatile and non-volatile memories ? Explain.
(b) Discuss the application of computer in e-Business.

Or

2. (a) What is a bus in Computer System ? What is bus width ? If the number of bits in an instruction is 32 bits. What is the width of data bus ?
(b) Explain system and application software ?

Unit-II

3. (a) What is operating system ? Explain the functions of operating system.
(b) Discuss the generation of computers.

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Or

4. (a) Discuss the features and merits of OOPs.
- (b) Explain procedure oriented programming with example.

Unit – III

5. (a) Explain inheritance. Explain various types of inheritance with example.
- (b) Explain various structures in C++ with examples.

Or

6. (a) What is operator overloading ? Explain it with examples.
- (b) What are constructors ? Explain copy constructor with example.

Unit – IV

7. (a) Explain DBMS. Compare it with file oriented approach.
- (b) Explain what is data independence.

Or

8. (a) What are data models ? Explain the importance of E-R model.
- (b) Explain the following keys :
 - (i) Primary keys
 - (ii) Candidate keys
 - (iii) Foreign key
 - (iv) Composite keys

Unit – V

9. (a) Explain OSI model.

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(b) Write a note on the following :

- (i) World Wide Web
- (ii) Network security

Or

10. (a) Explain LAN, MAN and WAN.

(b) What is peer to peer computing ? How is it different from client-server computing ?