

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.

**P. T. O.**

*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 ?