

Roll No .....

**BE - 205****B.E. I & II Semester**

Examination, December 2015

**Basic Computer Engineering****Time : Three Hours****Maximum Marks : 70**

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.  
ii) All parts of each question are to be attempted at one place.  
iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.  
iv) Except numericals, Derivation, Design and Drawing etc.

**Unit - I**

1. a) What is MS Excel?  
b) List the different types of CPU registers.  
c) Why is the process control block needed?  
d) Write the difference between a Volatile memory and a Non-Volatile memory.

OR

What do you understand by the instruction set? What is the step taken by the CPU to execute the instructions?

**Unit - II**

2. a) What is Array?  
b) What is Programming Language?  
c) Explain the various kinds of looping statements in C++.

- d) What are the salient features of Object Oriented Programming? Explain.

OR

What is flowchart? Explain different Symbols used in Flowcharts.

**Unit - III**

3. a) Define data hiding and encapsulation.  
b) What is inheritance?  
c) Write the difference between stacks and queues.  
d) How the operator overloading is done by using friend function? Explain with example.

OR

What is constructor? What does it do? Write and explain about different types of constructors with suitable examples.

**Unit - IV**

4. a) Define computer networking.  
b) Define viruses, worms and malware.  
c) What are the goals and applications of computer network? Explain.  
d) What is E-commerce? What are the advantages and disadvantages of E-commerce?

OR

Differentiate between TCP and IP.

**Unit - V**

5. a) What is DBA?  
b) Define Primary Key.  
c) Explain the terms Cloud infrastructure.  
d) What is Data Dictionary? What types of information is stored in Data Dictionary?

OR

Write the advantages of Database Management System.

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