

# END TERM EXAMINATION

FIRST SEMESTER |BBA| DECEMBER-2011

Paper Code: BBA/BBA(B&I)/BBA(TTM)107

Subject: Introduction to IT

Time : 3 Hours

Maximum Marks :75

Note: Attempt any five questions. Scientific calculators are not allowed.

## SECTION-A

- Q1 (a) Draw a block diagram to illustrate the basic organization of a computer system and explain the functions of the various units. (8)  
(b) How many types of storage are normally there in the storage unit of a Computer System? Justify the need for each storage type. (7)
- Q2 (a) What is mainframe and what are its applications? (5)  
(b) What is an instruction set? (4)  
(c) A computer has 256 MB of memory. How many characters can be stored in its memory at a time? (3)  
(d) What is the importance of hexadecimal and octal number systems for a computer system? (3)
- Q3 (a) Convert the  $(921)_{10}$  into equivalent binary, octal and hexadecimal numbers. (6)  
(b) After converting the numbers in binary, perform the following arithmetic:- (6)  
(i)  $-(47)_{10}-(37)_{10}$  (ii)  $(96)_{10}-(47)_{10}$  (iii)  $(45)_{10}+(33)_{10}$   
(c) Calculate  $(110010)_2*(1010)_2$ . (3)
- Q4 (a) What are the advantages and limitations of machine language? (5)  
(b) When is a computer language called machine dependent? What is the main disadvantage of such a language? (5)  
(c) What is an interpreter? How does it differ from a compiler? When is it preferred to use an interpreter than a compiler? (5)
- Q5 (a) What is a magnetic disk? Explain how data are stored and organized on a magnetic disk? (8)  
(b) The sector size of a disk should not be too large or too small. Explain why? (4)  
(c) Differentiate between magnetic storage and optical storage. (3)
- Q6 (a) What is multiprogramming? Explain how multiprogramming ensures effective utilization of main memory and CPU? (7)  
(b) Discuss the characteristics of time sharing and real time operating systems. (8)
- Q7 (a) List out some of the key features of Microsoft windows. (6)  
(b) What are the functions of networking devices i.e. Hubs, Switches and Routers? (9)
- Q8 (a) What are the advantages and disadvantages of star topology, bus topology and ring topology? (8)  
(b) What are the advantages of using relative addressing of cells in MS Excel? (4)  
(c) How does If function work in MS Excel? (3)

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