END TERM EXAMINATION
FIRST SEMESTER [BBA/BBA(B&I)/BBA(TTM)/BBA(MOM)] DECEMBER-2011
Paper Code: BBA/BBA(B&I)/BBA(TTM)/BBA(MOM) 107 Subject: Computer Fundamentals
Time: 3 Hours Maximum Marks: 75
Note: Attempt any fine questions. Scientific calculators are not allowed.

Q1 (a) List out steps taken by CPU to execute a instruction. (8)
(b) What is an instruction set of a computer system? Do computers made by different manufacturers generally have the same or different instruction sets? (7)

Q2 (a) What are registers and how are they important? (5)
(b) What are Supercomputers and where are they used? (5)
(c) Describe the main characteristics of fifth generation computers. (5)

Q3 (a) Differentiate between CISC and RISC processors. (5)
(b) A fast processor alone is not sufficient for good performance of a computer system. Discuss. (5)
(c) Hardware is normally a one-time expense whereas software is a continuing expense. Discuss. (5)

Q4 (a) convert the (685)₁₀ into equivalent binary, octal and hexadecimal numbers. (6)
(b) After converting the numbers in binary, perform the following arithmetic-
   (i) -(57)₁₀ -(36)₁₀ 
   (ii) (38)₁₀ -(27)₁₀ 
   (iii) (27)₁₀ +(39)₁₀ 
   (9)

Q5 (a) Explain the key functions performed by the system software of a computer system. (5)
(b) Describe the machine independence characteristic of a high-level language. (5)
(c) What is an assembly language? What are its advantages over machine language? (5)

Q6 (a) Why are I/O devices necessary for a computer system? (5)
(b) How is multiprocessing different from multiprogramming? (5)
(c) Discuss the characteristics of time sharing operating system. (5)

Q7 (a) Differentiate among Simplex, half-duplex and full-duplex modes of data transmission. (5)
(b) What are the advantages and disadvantages of mesh topology, star topology and bus topology? (10)

Q8 (a) Discuss the applications of IT in marketing and finance area of management. (9)
(b) Explain average(), gf() and count() functions of MS Excel. (6)

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