

(Please write your Exam Roll No.)

Exam Roll No.

END TERM EXAMINATION

FIRST SEMESTER [BBA] DECEMBER-2012

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

Subject: Introduction to IT

Time : 3 Hours

Maximum Marks :75

Note: Attempt all questions. Internal choice is indicated.

- Q1 Attempt **any three** of the following:- (5x3=15)
- (a) Whether machine program written for a particular CPU will run on another CPU? Justify your answer.
 - (b) Out of two ie magnetic disk and optical disk, which one is faster? Why?
 - (c) Explain the booting process in detail.
 - (d) Differentiate between a switch and router.

- Q2 (a) List the steps involved in the execution of an instruction by the CPU of a computer system. (7.5)
- (b) Perform the following:- (7.5)
- (i) Convert decimal 578 to binary. (ii) Convert binary 100011011 to decimal.
 - (iii) 110111/1011 (iv) 100100-100011
 - (v) 10111x1101

OR

- (a) Compare RISC and CISC architecture. Also, discuss their advantages and disadvantages. (7.5)
- (b) What is the difference between an L1 and L2 cache? (3.5)
- (c) Convert the $(A5DE)_{16}$ into equivalent decimal and octal numbers. (4)

- Q3 (a) Describe the role of a computer's system clock. (3)
- (b) What is ROM? What it contains? Differentiate between EPROM and EEPROM? (6)
- (c) Explain how read/write operation is carried out in an optical disk? (6)

OR

- (a) How is data stored on the magnetic disk? If number of tracks on the disk are 60, sectors per track are 4000 and size of each sector is 512 bytes, then find the capacity of disk in MB? (7)
- (b) What is the difference between arithmetic operations and logical operations? (5)
- (c) If the address bus is of 16 bits, then how many memory locations are possible? (3)

- Q4 (a) Explain the features of a good programming language. (5)
- (b) Define a process. Explain the life cycle of a process. (6)
- (c) Why is most of the scripting languages are interpreted and not compiled? (4)

OR

- (a) Differentiate between:- (6)
 - (i) Uniprogramming and Multiprogramming
 - (ii) Preemptive and Nonpreemptive scheduling
- (b) What is the effective way to measure the average access time of a hard disk? (5)
- (c) How does operating system manage the memory? Explain. (4)

- Q5 (a) Differentiate between:- (3x4=12)
- (i) Switch and Router
 - (ii) Physical topologies and logical topologies
 - (iii) Physical address and logical address
 - (iv) Synchronous and Asynchronous transmission
- (b) What are the characteristics of optical fiber? (3)

OR

- (a) Explain the importance of protocols in networking. (4)
- (b) 'Internet is an example of WAN'. Justify the statement. (4)
- (c) Differentiate among repeaters, hub, bridge and switch. (7)
