Name :	
Roll No. :	An Alaman W. Consider and Excelored
Invigilator's Signature :	

CS/BTTM/SEM-1/TTM-103/2012-13

2012

COMPUTER FUNDAMENTALS

Time Allotted : 3 Hours

Full Marks: 70

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GROUP – A (Multiple Choice Type Questions)

- 1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) CD-ROM is a
 - a) semiconductor memory
 - b) memory register
 - c) magnetic memory
 - d) none of these.
 - The input technique that is widely used by the banking industry for processing cheque is
 - a) optical character recognition
 - b) magnetic ink character recognition
 - c) joysticks
 - d) bar code reader.

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- iii) Data is stored in a computer in
 - a) analog format
 - b) digital format
 - c) any format desired by the user
 - d) none of these.
- iv) Magnetic tape can serve as
 - a) secondary storage media
 - b) output media
 - c) input media
 - d) all of these.

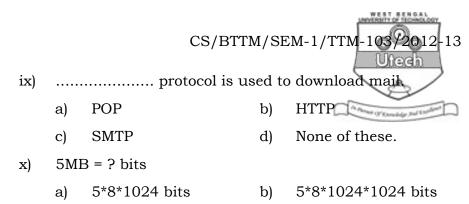
v) $(16)_{10} = (?)_{16}$

- a) A b) 10
- c) 1 d) none of these.

vi) Which of the following memories needs refreshing?

- a) SRAM b) DRAM
- c) ROM d) All of these.
- vii) Modem is used to
 - a) convert digital signal into analog signal only
 - b) convert analog signal into digital signal only
 - c) convert digital signal into analog signal and vice versa
 - d) none of these.
- viii) The language that the computer can understand and execute is called
 - a) machine language b) application software
 - c) system program d) all of these.





c) 5*1024*1024 bits d) none of these.

GROUP – B

(Short Answer Type Questions)

Answer any three of the following $3 \times 5 = 15$ Write short notes on ASCII and BCD. Write full form of

- 2. Write short notes on ASCII and BCD. Write full form of EBCDIC. 2+2+1
- 3. Distinguish between File base system and database management system.
- 4. a) Perform the following operation : $(101110)_2 + (101101)_2 - (11011)_2$
 - b) Convert the following :
 - i) $(1011101)_2 = (?)_{10}$
 - ii) $(A16)_{16} = (?)_2$
 - iii) $(57 \cdot 625)_{10} = (?)_2$ 2 + 1 + 1 + 1

5. What is an operating system ? State its uses. 2 + 3

6. Differentiate between compiler and interpreter.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. a) Write different modes of data transmission.
 - b) Name five network topologies and mention one advantage and one disadvantage of each type. 5 + 10

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- 8. a) What is data ? Write different types of data. What is EDP (Electronic Data Processing) ? Write two advantages of EDP.
 - b) Write about computer and its use in hospitality industry. 2+3+2+2+6
- 9. a) What is ROM ? Differentiate between primary memory and secondary memory. What is cache memory ?
 - b) Write the characteristics of Microprocessor.

(4+3+2)+6

- 10. a) What is utility software ? Give two examples of utility software. Write the technology that a compact disc (CD) uses to write data into the CD.
 - b) What is Central Processing Unit ? What is analog and digital computer ?
 - c) What do you mean by CPU speed ?

(2 + 1 + 4) + (2 + 4) + 2
