



Name :

Roll No. :

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.
 - ii) 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.



- 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.



- ix) protocol is used to download mail.
- | | |
|---------|-------------------|
| a) POP | b) HTTP |
| c) SMTP | d) None of these. |
- x) 5MB = ? bits
- | | |
|-----------------------------------|-------------------------------------------|
| a) $5 \cdot 8 \cdot 1024$ bits | b) $5 \cdot 8 \cdot 1024 \cdot 1024$ bits |
| c) $5 \cdot 1024 \cdot 1024$ 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 EBCDIC. $2 + 2 + 1$
- Distinguish between File base system and database management system.
- a) Perform the following operation :
 $(101110)_2 + (101101)_2 - (11011)_2$
- b) Convert the following :
 - $(1011101)_2 = (?)_{10}$
 - $(A16)_{16} = (?)_2$
 - $(57 \cdot 625)_{10} = (?)_2$ $2 + 1 + 1 + 1$
- What is an operating system ? State its uses. $2 + 3$
- Differentiate between compiler and interpreter.

GROUP – C

(Long Answer Type Questions)

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

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

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



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 ? $(2 + 1 + 4) + (2 + 4) + 2$
=====