



Name :

Roll No. :

Invigilator's Signature :

CS/BTTM/SEM-1/TTM-103/2009-10

2009

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) A tourism company has its head office at Kolkata and branch offices at Darjiling, Malda, Bardwan, and Midnapur. The company uses the same protocols as the Internet, but which belongs to an organization and which prohibits access by external users. This is
 - a) network
 - b) intranet
 - c) extranet
 - d) internal net.
 - ii) CD-ROM is a kind of
 - a) optical disk
 - b) magneto-optical disk
 - c) magnetic disk
 - d) none of these.
 - iii) In which kind of disk does the read/write head physically touches the surface ?
 - a) hard disk
 - b) compact disk
 - c) floppy disk
 - d) none of these.



- iv) The input technique that is widely used by the banking industry for processing cheques is
 - a) optical character recognition
 - b) magnetic ink character recognition
 - c) joysticks
 - d) bar code reader.
- v) With the combination of , and colours, other colours can be shown.
 - a) Red, Black, Blue
 - b) Yellow, Blue, Green
 - c) Red, Green, Blue
 - d) Black, White, Yellow.
- vi) An individual small dot, which one sees on the computer screen is called as
 - a) font
 - b) character
 - c) screen point
 - d) pixel.
- vii) With an Internet connection software enables a user to visit a website.
 - a) web browser
 - b) web explorer
 - c) web viewer
 - d) none of these.
- viii) A computer network which provides long distance transmission of data, images and sound over a large distance is
 - a) MAN
 - b) WAN
 - c) LAN
 - d) VAN.
- ix) What kind of data can you send by e-mail ?
 - a) audio
 - b) video
 - c) pictures
 - d) all of these.
- x) 1 GB =
 - a) 2^{20} bits
 - b) 2^{30} bits
 - c) 2^{33} bits
 - d) none of these.



GROUP – B
(Short Answer Type Questions)

Write short notes on any *three* of the following.

3 × 5 = 15

2. Write short note on BCD and EBCDIC codes. What is the full form of ASCII code ? 2 + 2 + 1
3. a) Perform the following subtraction operation :
 $(1010111)_2 - (11101)_2$
b) Convert the following :
 - i) Binary $(11111111)_2$ to its Decimal equivalent
 - ii) Hex $(16FA)_{16}$ to its Binary equivalent
 - iii) Binary $(1001111010)_2$ to its Octal equivalent.2 + 1 + 1 + 1
4. What is ROM ? Differentiate between EPROM and EEPROM. 2 + 3
5. Differentiate between file based system and database management system. 5
6. Draw a diagram showing the basic organization of a computer system and explain the diagram in brief. 2 + 3

GROUP – C
(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

7. a) "In Travel and Tourism industry application of computers is inevitable nowadays. List the services (applications) provided by the computer giving stress to the travel and tourism industry.
- b) Discuss about the classification of computers. 7 + 8

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8. a) Discuss about different types of printers.
b) What are registers in a CPU ? Name *five* registers with their functions. 9 + 1 + 5
9. a) What are CRT monitors ? Briefly discuss about their operating principles.
b) Compare between magnetic disks and optical disks. 10 + 5
10. a) Briefly describe about different categories of computer networks.
b) Name the *five* network topologies and mention one advantage and one disadvantage for each type. 5 + 10
11. a) What do you mean by software and hardware ?
b) Give a comparative study on "Application software" and "System software".
c) What is an "operating system" ? State its uses. 2 + 8 + 2 + 3
12. Write short notes on any *five* of the following : 5 × 3
- a) NIC
 - b) Router
 - c) E-mail
 - d) Modem
 - e) Compiler
 - f) Touch Screen Terminals
 - g) Cache Memory.
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