COMPUTER APPLICATION

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks for the questions..

Answer question No.1 and any *four* from the rest.

1. (a) Fill in the blanks :   1×5=5

    (i) MS-DOS commands can be of two types which are ——— and ——— commands.

    (ii) LAN stands for ———.

    (iii) The ——— works as an interface between hardware and user.

    (iv) ASCII stands for ———.

    (v) 1 Kilobyte = ——— bytes.

[Turn over

(b) State true or false : $1 \times 5 = 5$

(i) Mouse is an input deyice.

(ii) The BCD equivalent of 72 is 10010000.

(iii) The keyboard shortcut command for saving a document is "Ctrl + W".

(iv) Switch is a network device.

(v) Interpreters are faster than compilers.

2. (a) Convert the following : $5 \times 2 = 10$

(i) $11101 \cdot 1101_2$ to decimal

(ii) $125 \cdot 75_{10}$ to binary

(iii) 110110111_2 to hexadecimal

(iv) $3AB_{16}$ to octal

(v) 125_{10} to BCD.

(b) Give 2's complement of the 1110. 1

(c) Give 1's complement and 10's complement of 12345. 2

(d) Perform the subtraction of 11001 by 111. 2

3. (a) Define an Operating System. Explain in brief the basic functions. 2+4=6

   (b) What are the differences between a single-user OS and a multi-user OS ? Explain with examples. 3+2=5

   (c) What are the differences between LAN and WAN ? 4

4. (a) What is a spreadsheet ? How many rows and columns are available in MS-Excel spreadsheet ? 5

   (b) What is MS-Office ? Write about different Office tools. 2+8=10

5. (a) Define language translation. Write about the different types of languages used in computer with examples. 6

   (b) What is a pointing device and why is it called so ? Give examples. 4

   (c) What are the different types of printers you know ? Explain them with examples. 5

6. (a) What are the advantages of networking ?

4

(b) What do you mean by topology ? Describe the different network topologies.   2+6=8

(c) Write the use of the following commands in DOS :   1+1+1=3

(i) COPYCON

(ii) DELTREE

(iii) DIR / P

7. Write short notes on any *three* :   3×5=15

(a) Web browsers

(b) NIC

(c) GUI

(d) Cache memory

(e) Keyboard.