N21-04440

TED (15) - 6043   Reg.No.............................
(Revision-2015)   Signature.........................

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/ COMMERCIAL PRACTICE   -   NOVEMBER-2021

COMPUTER HARDWARE AND NETWORKING

[Maximum marks: 75]   (Time: 2.15 Hours)

PART – A

Marks

I. Answer any *three* questions in one or two sentences. Each question carries 2 marks

1. List any two advantages of SMPS.

2. Write any two non impact printers.

3. Name any two expansion cards.

4. Define latency time in hard disk.

5. List any two unguided transmission media.   (3 x 2 = 6)

PART – B

II.Answer any *four* of the following questions. Each question carries 6 marks

1. Describe the working of flat bed scanner.

2. Discuss different levels of cache memory.

3. Explain SIMM,DIMM and RIMM.

4. Describe low level and high level formatting.

5. Write short notes on FAT file system.

6. Distinguish between hub and switch.

7. Describe any two guided media.   (4 x 6= 24)

PART – C

Answer *any of the three units* from the following. Each full question carries 15 marks

UNIT –I

III. (a) Draw and explain the block diagram of VGA monitor.   (8)

   (b) Explain the working of optical mouse.   (7)

OR

IV. (a) Explain the block diagram of ATX SMPS.   (8)

   (b) Describe the working of dot matrix printer   (6)

UNIT-II

V. (a) Describe the RAM memory used in computer system. (8)

(b) Explain memory refreshing. (7)

OR

VI. (a) With neat block diagram explain motherboard organization. (8)

(b) Explain ROM memory in computer system. (7)

UNIT-III

VII. (a) Explain the construction of hard disk. (8)

(b) Describe different types of ESD. (7)

OR

VIII. (a) Describe NTFS and HPFS (7)

(b) Explain various antistatic devices (8)

UNIT-IV

IX. (a) Draw and explain various networks topologies. (8)

(b) Explain virtual private network. (7)

OR

X (a) Explain 7 layer ISO-OSI reference model. (8)

(b) Describe the applications of internet (7)