

# 17533

**11718**

**2 Hours / 50 Marks**

Seat No.

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

- Instructions* –
- (1) All Questions are *Compulsory*.
  - (2) Answer each next main Question on a new page.
  - (3) Illustrate your answers with neat sketches wherever necessary.
  - (4) Figures to the right indicate full marks.
  - (5) Assume suitable data, if necessary.
  - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

1. a) Attempt any THREE of the following: **12**
- (i) Explain architecture of Intel chip set 945G with diagram.
  - (ii) With the help of diagram explain the working of :
    - 1) On-line UPS
    - 2) Off-line UPS
  - (iii) Explain the preventive maintenance of :
    - 1) Mouse
    - 2) CD ROM drive
  - (iv) Draw the 20 Pin ATX power connection with color code and describe the signals.
- b) Attempt any ONE of the following: **6**
- (i) Describe peer to peer and client server networks.
  - (ii) Compare between OSI and TCP/IP reference model.  
(any 6 points)

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) Explain BIOS with its any three functions.
  - b) Explain construction of DVD.
  - c) Describe data encapsulation.
  - d) Explain Active matrix LCD with diagram.
  - e) List any four advantages of optical mouse.
- 3. Attempt any TWO of the following:** **16**
- a) What is network topology? Explain star and bus topology with advantages.
  - b) Explain scanner printer, mouse and keyboard related problems along with their solution (any two each)
  - c) Explain following terms:
    - (i) Subnet masking
    - (ii) ARP
    - (iii) FTP
    - (iv) TCP
-