14115

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** : **12**

    a) Explain architecture of Intel chipset 945G with diagram.

    b) With the help of diagram explain working of UPS.

    c) Explain the preventive maintenance of printers.

    d) Draw the 20 pin ATX power connection with color code and describe the signals.

   B) Attempt **any one** : **6**

    a) Describe peer to peer and client-server networks.

    b) Compare between OSI and TCP/IP reference model (6 points).

2. Attempt **any four** : **16**

    a) Explain BIOS with its any 3 functions.

    b) Explain construction of DVD.

    c) Describe data encapsulation.

    d) Explain passive matrix LCD with diagram.

    e) List any four advantages of optical mouse.

3. Attempt **any two** :   **16**

a) What is network topology ? Explain star and bus topology with its advantages (any 2).

b) Explain keyboard, hard disk, mouse and scanner related problems.

c) Explain following term :

   i) Subnet masking

   ii) ARP

   iii) FTP

   iv) IP address classes.

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