2 Hours/50 Marks

Seat No.

Instructions : (1) **All** questions are **compulsory**.
(2) Illustrate your answers with neat sketches **wherever necessary**.
(3) **Figures** to the **right** indicate **full** marks.
(4) Assume **suitable data**, if necessary.

MARKS

1. Attempt **any seven** : 14

   a) What do you understand by active preventive maintenance ?

   b) List any four features of 8 bit ISA bus.

   c) What is passive maintenance ?

   d) List two important features of peer to peer network.

   e) State characteristics of L2 Cache.

   f) What do you understand by subnet masking ?

   g) List two basic types of RAM.

   h) List any two important benefits of networks.

   i) What is a BIOS ?

   j) Why UDP protocol is used ?

2. Attempt **any four** : 12

   a) State any three points of difference between on-line UPS and off-line UPS.

   b) What do you mean by POST ? Give solution for the following error indication
      i) No beep   ii) Continuous beep

   c) Explain working principle of LCD monitor.

   d) List important features of routers used in computer network.

   e) List any six important features of DDR 3.

   f) Explain what do you understand by date encapsulation.

3. Attempt **any four** :   **12**

   a) Draw the architecture of Intel 945 G Chipset.

   b) Give function of each layer of OSI reference model.

   c) Draw and explain the block diagram of SMPS.

   d) Explain the different classes of IP addressing.

   e) Explain how preventive maintenance of Laser printer is performed.

   f) What is network topology ? List their types with meaning.

4. Attempt **any four** :   **12**

   a) Explain the recording process of CDROM drive.

   b) Define the following power problems.

      i) Blackout   ii) Surger   iii) Spikes

   c) Explain how preventive maintenance of CD ROM drive is carried out.

   d) Explain the working principle of Firewalls.

   e) Give function of the following TCP/IP protocols :

      i) ARP   ii) F TP

   f) Explain important characteristics of fiber optics cable.

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