



# 17533

15162

2 Hours / 50 Marks

Seat No.

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- 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** : **(4×3=12)**
- a) List four features of ISA and PCI Express.
  - b) Write preventive maintenance procedure of laser printer.
  - c) Differentiate between CRT and LCD Display (four points).
  - d) Draw OSI Reference Model. State function of any two layers.
- B) Attempt **any one** : **(6×1=6)**
- a) Draw the TCP/IP Reference Model and state the function of various layers.
  - b) List classification of network on basis of geographical area. State the benefits of networks.
2. Attempt **any four** : **(4×4=16)**
- a) List four characteristics of display and define them.
  - b) Write preventive maintenance procedure of (i) Keyboard (ii) Hard disk.
  - c) List any two problem of PC with its troubleshooting.
  - d) Define IP Addressing. List IP Address classes with their range.
  - e) Name the different TCP/IP Protocols. Explain the working of FTP.
3. Attempt **any two** : **(8×2=16)**
- a) What is cache memory ? What are its types ? With the help of neat diagram, explain the working principle of cache.
  - b) Draw block diagram of SMPS and state the function of the blocks.
  - c) List networking devices. State the function of any four devices.