

# 17533

**11920**

**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) 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) Describe any four functions performed by BIOS.
  - (ii) State four preventive maintenance measures to be taken for maintenance of printer.
  - (iii) Define cache memory? Explain it's types.
  - (iv) Write step by step procedure to configure TCP/IP protocol.

P.T.O.

b) **Attempt any ONE of the following:****06**

- (i) Draw TCP/IP reference model, give the function of each layers.
- (ii) Identify the following devices in which layer of OSI reference model they work.
  - (1) Hub
  - (2) Switch
  - (3) Repeater
  - (4) Bridge
  - (5) Router
  - (6) Gateway

**2. Attempt any FOUR of the following:****16**

- a) Draw only the architecture of Intel-945G
- b) Explain preventive maintenance. Explain it's types.
- c) Troubleshoot the following PC problem. When the computer is made "ON" there is no display.
- d) Explain data encapsulation in OSI reference model
- e) Draw ICMP packet format and explain it.

**3. Attempt any TWO of the following:****16**

- a) Draw block diagram of SMPS? Explain the use of output voltage of SMPS.
  - b) Draw block diagram of Laser Printer and explain each block.
  - c) Explain peer to peer and client server network. Give the benefits of client server network over peer to peer network.
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