

17533

21718

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) Explain the concept of cache memory with neat diagram.
- (ii) State any four preventive maintenance of a Hard Disk Drive.
- (iii) Draw neat labeled block diagram of flat bed scanner.
- (iv) State any four functions of Internet protocol (IP)
- b) **Attempt any ONE of the following:** **6**
- (i) Draw and explain the function of each layer of TCP/IP protocol architecture.
- (ii) Compare between UTP cable and STP cable. (6-points)

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) State any four features of PCI bus.
 - b) Explain beep error indications with reference to PC problem (any four)
 - c) Explain power on self-test (POST) of PC.
 - d) Give the ARP protocol message format.
 - e) Draw and explain the packet structure of UDP.
- 3. Attempt any TWO of the following:** **16**
- a) Explain the working of Inkjet printer with neat block diagram. State its two limitations.
 - b) Draw the block, diagram and explain the working of SMPS. Give any two functions of PWM in SMPS.
 - c) Give the classification of network topology. Explain any two network topology in details.
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