

- N.B. : (1) Attempt any **five** questions from **six**.
(2) Answer **suitable** data wherever **required**.

1. (a) Explain following with example : 10
MAC address
IP address
Socket
Baud rate
Latency.
(b) Give the functionality of : 10
repeater
hubs
Bridges
Switches
router.
2. (a) What is congestion ? Explain how it can be avoided. 10
(b) Explain HDLC. 10
3. (a) Explain DNS and SMTP. 10
(b) Explain different types of routing algorithm. 10
4. (a) Explain circuit switching, packet switching and message switching. 10
(b) Explain subnetting and supernetting. 10
5. (a) Compare 802.3, 802.4, 802.5. 10
(b) Explain CRC and checksum. 10
6. (a) List various blue tooth features and explain network formation process. 10
(b) State different TCP Flags. 10