Paper / Subject Code: 42480 / INTERNET COMMUNICANTION ENGINEERING (DLOC - IV)

10/06/2025 BE EXTC SEM-VII C-SCHEME INTERNET COMM.ENGG. QP CODE: 10079607

Duration: 3hrs Total Marks: 80

N.B.:

| 1 | A | 4 | • | | |
|----|-------------|-------|----|------|----------|
| | (Dijection | no I | 16 | comn | ulcorv |
| т. | Question | 110.1 | 13 | COMP | uisui y. |

- 2. Attempt any three questions from the remaining five questions.
- 3. Total four questions need to be solved.
- 4. Assume suitable data whenever necessary, justify the same.

Attempt any four questions from Q1

| Q.1 a | Explain the overview of the TCP/IP model. | [5] |
|-------|--|-------|
| Q.1 b | Compare Telnet and SSH remote login protocol. | [5] |
| Q.1 c | Explain the working of Domain Name System (DNS). | [5] |
| Q.1 d | Differentiate between MPEG and JPEG compression standards. | [5] |
| Q.1 e | Explain the working of a Firewall. | [5] |
| | | |
| Q.2 a | Explain the detail working of different steps of Image compression technique. | [10] |
| Q.2 b | Analyze how S/MIME protocol provides security to electronic mail. | [10] |
| | | |
| Q.3 a | Draw and explain the physical design of IoT. Also explain the characteristics of IoT. | [10] |
| Q.3 b | Explain the working of different types of Audio (sound) signal compression techniques. | [10] |
| A 4-5 | | F1 03 |
| Q.4 a | Explain working of Transport layer security protocol, Secure Sockets Layer (SSL). | [10] |
| Q.4 b | What is a Software Defined Network? Describe network automation in SDN. | [10] |
| | The state of the s | |
| Q.5 a | Explain working of RSVP: reservation protocol and its different types of messages. | [10] |
| Q.5 b | Explain the working of Network Layer Security in detail. | [10] |
| | The state of the s | |
| Q.6 | Write a short note on the following. | [20] |
| a | Real-Time Streaming Protocol(RTSP) | |
| b A | H.261 and H.263 | |
| c to | Differentiated services (diffserv) | |
| d | VoIP | |
| | | |

79607

Page 1 of 1