

Code No: R194104A

R19

Set No. 1

IV B.Tech I Semester Advance Supplementary Examinations, March – 2023

COMMUNICATION STANDARDS AND PROTOCOLS

(Electronics and Communication Engineering)

Time: 3 hours

Max. Marks: 75

*Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks

UNIT I

- 1 a) Explain analog signal and write its characterises. [7]
b) Define topology? Explain various network topologies [8]
(OR)
- 2 a) Explain the serial and parallel data transmissions. [7]
b) Explain the Full Duplex transmission mode in detail. [8]

UNIT II

- 3 a) With a neat diagram explain the Twisted Pair communication media. [7]
b) Give introduction to error control and explain error types in detail. [8]
(OR)
- 4 a) Explain various communication layers and write its applications. [7]
b) Write a note on error detection and correction techniques. [8]

UNIT III

- 5 a) Write a note on Controller Area Network. [7]
b) What is Universal Asynchronous Receiver Transmitter? Explain briefly [8]
about it.
(OR)
- 6 a) Explain the MAC and IP protocols. [7]
b) Discuss the Dial up Modems. [8]

UNIT IV

- 7 a) Write a note on Zigbee and its applications. [7]
b) Discuss briefly about GSM in detail. [8]
(OR)
- 8 a) Explain the structure of Bluetooth technology. [7]
b) What is IR? Explain about it and write applications. [8]

UNIT V

- 9 a) Differentiate Internet and Intranet. [7]
b) Write a note on LAN and PAN [8]
(OR)
- 10 a) Discuss the sensornetworksanditsapplications. [7]
b) Differentiate switch, Hub and Bridge also working principles. [8]

