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DIGITAL COMMUNICATION 5th Exam/ECE/2618/Dec'22 (For 2018 Batch Onwards)

Duration: 3Hrs. M.Marks:75
SECTION-A

Q1. Give answer in one line.

15x1=15

- a. How many unique characters can be represented in ASCII code?
- b. What is phase difference between two signals in BPSK?
- c. Write the unit of signaling speed or modulation rate.
- d. Write the full form of ASCII.
- e. In which transmission the start and stop bits are also transmitted.
- f. What is the primary advantage of digital communication over analog communication?
- g. Which type of modem will allow simultaneous transmission in both the directions?
- h. Define parity.
- i. Define full duplex transmission.
- j. Write the full form of OOK
- k. Define attenuation.
- I. What is major disadvantage of FSK?
- m. Define bit rate.
- n. Write the full form of EBCDIC.
- o. Define CRC.

SECTION-B

Q2. Attempt any six questions.

6x5 = 30

- i. Write a short note on RS-232 serial interface.
- ii. Explain ASCII code for data representation.
- iii. Explain the block diagram of digital communication system.
- iv. Explain the ECHO SUPPRESSORS and its need.
- v. What is the difference between 7 bit ASCII and EBCDIC code?
- vi. Explain various error correction techniques.
- vii. Write characteristics of data transmission circuits.
- viii. Compare synchronous and asynchronous transmission.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. What is need of MODEM? Explain different types of MODEM?
- b. Explain the working principle of STS and TST switches.
- c. Explain the comparison of digital communication with analog communication system.
- d. Explain generation and detection of ASK with block diagram.
- e. What is QPSK? Compare BPSK with QPSK.