

S.B. Roll No.....

**DIGITAL COMMUNICATION**  
**5<sup>th</sup> Exam/ECE/2618/Jun'2021**  
**(For 2018 Batch onwards)**

**Duration: 1.15Hrs.**

**M.Marks:25**

**SECTION-A**

**Q1. Attempt any three questions.**

**3x5=15**

- i. Explain the need and function of modem.
- ii. Discuss in short about Amplitude shift keying.
- iii. Write a short note on echo suppressors.
- iv. Write down the various advantage of digital communication system.
- v. Write down the various transmission modes used in Modem operation.
- vi. Discuss in brief about ASCII Codes.
- vii. Discuss in brief about internal noise in communication system.

**SECTION-B**

**Q2. Attempt any one question.**

**1x10=10**

- a. Draw the block diagram and explain the working principle of QPSK Modulation process.
- b. Write a short note on any two    i) FSK Receiver    ii) CRC    iii) Hamming Codes
- c. Explain the principle and working of STS and TST switches in detail.
- d. Write a short note on any two    i) ASK    ii) Equalizers    iii) Modem Modulation Methods.