BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Guru Gobind Singh Indraprastha University, Delhi)
(An ISO 9001:2015 Certified Institution)
A-4, Paschim Vihar, Main Rohtak Road, New Delhi – 110 063

Department of Electronics and Communication Engineering

Student Name_____   **Enroll. No**_____

Semester: **V sem**   **Date:** _____

Course Code. : ETEC – 303   **Course Title:**   **Digital Communication**

Quiz/Test No.:   **5**   **Marks Obtained**_____

Max. Marks :   **1**   **Evaluator's Sign**_____

Q1. Draw the waveform of the following bandpass modulation schemes for the bit stream '11001001'.

   a) Binary FSK with $f_1 = 4R_b$ and $f_0 = 2R_b$ (0.2)

   b) Binary PSK with $f = 2R_b$ (0.2)

Q2. Explain the DPSK modulation and demodulation process using the bit stream '11011000'.   (0.3)

Q3. Which of the following has better probability of error?   (0.3)

   a) Binary ASK, Binary FSK   _____

   b) Binary PSK, QPSK   _____

   c) Coherent FSK, Non-coherent FSK _____