or Nishart jain

MAX. MARKS:50

[8]

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT MID SUMMER EXAMINATION-June-2018

B.Tech 5th Semester

COURSE CODE: 10B11EC514 **COURSE NAME: Communication Systems** MAX. TIME: 2 Hrs COURSE CREDITS: 4 Note: Carrying of mobile phone during examinations will be treated as case of unfair means. 1. Draw and explain the block diagram of basic electronic communication systems. [5] 2. Explain the need of modulation in communication system. [5] 3. With the help of frequency spectrum, explain the concept of SSB modulation techniques. [8] 4. What do you understand by DSB-SC modulated signal. Explain any one method to generate [8] DSB-SC signal. 5. With the help of frequency spectrum, compare the bandwidth required by DSB-SC, SSB-SC [8] and VSB modulated signals. dan [8] 6. Write a brief note on Amplitude modulation with large carrier. 7. Explain the effect of phase and frequency errors in synchronous detection of DSB-SC signals.