

SECTION-B

- Q2. How can you reject image frequency in super heterodyne receiver? Why double spotting is harmful? Also draw selectivity curve at 750 KHz.
- Q3. Draw circuit diagram and waveforms of Square law modulator.
- Q4. With the help of block diagram, explain Armstrong method of FM generation.
- Q5. Give comparison of SSB transmission and conventional AM system .
- Q6. What do you mean by synchronization in PAM system?

SECTION-C

- Q7. In tabular form, give comparison of PAM, PWM and PPM systems.
- Q8. Explain the following :
- a. Two way FM radio transmitter and receiver.
 - b. AM receiver using phase locked loop.
- Q9. With derivation, explain DSB-SC system. Draw power spectrum and explain why we prefer SSB instead of DSB-SC system.