

6. (a) State and prove sampling theorem. 10
(b) Draw the block diagram of superhetrodyne receiver and describe the function of each block. 10
7. Write short notes on any four :- 20
- (a) Pre-emphasis and De-emphasis
 - (b) ISB transmission
 - (c) Adaptive Delta modulation
 - (d) AGC
 - (e) Companding.