

06/01/17

Roll No. .... Total Pages : 2

BT-3/DX

8311

ANALOG COMMUNICATION

Paper : ECE-203(E)

Time : Three Hours] [Maximum Marks : 100

Note : (i) Attempt any *five* questions.

(ii) All questions carry equal marks.

1. (a) Explain the various classification of noise. 10  
(b) Derive an expression for equivalent noise temperature of a cascade of networks in terms of their individual equivalent noise temperatures. 10
2. (a) Explain the coherent detection of DSBSC waves. 10  
(b) What is VSB modulation and benefits of using VSB modulation ? 10
3. (a) Explain the Pre-emphasis and De-emphasis in FM. 10  
(b) Describe Phase locked loop demodulator. 10
4. (a) Explain Radio telephone transmitter. 10  
(b) What do you mean by Superheterodyne receivers ? 10
5. (a) What is SSB and benefits of using SSB modulation ? 10  
(b) Explain the block diagram of AM transmitter. 10

8311/20,600/KD/1391

[P.T.O.]

- 11/10/20
6. (a) What is the effect of noise on carrier ? 10  
(b) What is Noise triangle ? 10
7. (a) Explain Square law modulation methods. 10  
(b) What do you mean by Diode detector with filter ? 10
8. Write short notes on the following :  
(a) AFC. 6  
(b) Narrowband noise. 7  
(c) Frequency scintillation. 7
-