

~~S.E. (ETRX)~~ SEM (IV) (R) May, 2013 27/5/13
Basic of Analog & Digital commⁿ systems

AGU 1st half (94) 13

Con. 6606-13.

(3 Hours)

GS-7209

[Total Marks : 100

- N.B. :** (1) Question No. 1 is compulsory.
(2) Attempt any four questions from Q. 2 to Q. 7.
(3) Assume suitable data if required with justification.

- | | |
|-------------------------------------------------------|----|
| 1. (a) Explain elements of communication. | 20 |
| (b) Explain short noise | |
| (c) Explain modulation Index for AM, FM | |
| (d) Sky wave propagation. | |
| 2. (a) Explain Balance modulator. | 10 |
| (b) Explain – | 10 |
| (i) VSB system | |
| (ii) ISB system. | |
| 3. (a) What is need of superhetrodyne radio receiver. | 10 |
| (b) Explain Indirect F.M. generation method. | 10 |
| 4. (a) Explain Noise triangle in F.M. | 10 |
| (b) Explain Time Division multiplexing. | 10 |
| 5. (a) Explain pulse code modulation system. | 10 |
| (b) Explain PPM, PWM. | 10 |
| 6. (a) Explain Adaptive Deltamodulation. | 10 |
| (b) Explain Quantization. | 10 |
| 7. Write short notes on :- | 20 |
| (a) Line coding | |
| (b) Tracking in Radio receiver | |
| (c) Sampling theorem | |
| (d) Companding. | |

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