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April 2015

Time – Three hours
(Maximum Marks: 75)

[N.B: (1) Answer any fifteen questions in PART - A and division (A) or division (B) of each question in PART - B.

(2) Each question carries 1 (one) mark in PART - A and 12 (twelve) marks in PART - B.]

PART - A

1. Define a symmetrical network.
2. What is an equaliser?
3. List the types of filters.
4. Define polarisation of an antenna.
5. Mention the types of modulation.
6. List the advantages of SSB signal.
7. Define AGC.
8. How do you select IF value?
9. Write any one effect of noise in FM.
10. Mention the types of FM detectors.
11. What is AFC?
12. What are the types of pulse modulation?
13. Define microphone.
14. Compare carbon and condenser microphones.
15. Mention the types of loud speaker.
16. What is DTS?
17. What is scanning?
18. Mention the elements of composite video signal.
19. Compare LED and LCD display units.
20. What is CCTV?

[Turn over.....

PART - B

21. (A) Explain about the different types of filters.

(Or)

(B) Explain about the working of parabolic reflector antenna.

22. (A) Explain about AM VSB system.

(Or)

(B) Explain the super heterodyne receiver with block diagram.

23. (A) Explain about the direct FM transmitter with a block diagram.

(Or)

(B) Explain the generation and detection of PPM signal.

24. (A) Explain the construction and working of dynamic cone type loudspeaker.

(Or)

(B) Explain the working of Dolby system.

25. (A) Explain the working of colour CCD camera.

(Or)

(B) Write notes on: (i) CCTV (ii) Cable TV.
