202

BOOK

October 2016

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. List the types of equaliser.
2. Define propagation constant.
3. What is filter?
4. Define radiation pattern.
5. Mention the types of modulation.
6. Write the formula for modulation index of an AM signal.
7. State the advantages of VSB.
8. Define AGC.
9. Define frequency modulation.
10. Write any one application of FM.
11. Expand PCM.
12. What is delta modulation?
13. Mention two types of microphone.
14. What is woofer?
15. Expand DTS.
16. What is DVD?
17. Define aspect ratio.
18. What is flicker?
19. What is scanning?
20. State any two features of LED display.

[Turn over.....

PART

21. (A) Explain about symmetrical π attenuator and state the applications of attenuator.

(Or)

(B) Explain about sky wave propagation with diagram.

22. (A) Explain AM balanced modulator with neat diagram.

(Or)

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

23. (A) Explain ratio detector with a neat diagram.

(Or)

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

24. (A) Explain the working of piezoelectric microphone with neat diagram and frequency response.

(Or)

(B) Explain about CD recording and reproduction.

25. (A) Explain the PAL colour TV receiver with block diagram.

(Or)

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