578 Register No.: [ ]

April 2018

Time – Three hours
(Maximum Marks: 75)

[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory. Answer any FOUR questions from the remaining in each PART - A and PART - B

(2) Answer division (a) or division (b) of each question in PART - C.

(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and 10 marks in PART – C.]

PART – A

1. What is an equaliser?
2. Define directivity of an antenna.
3. Draw the spectrum of AM.
4. State the advantages of SSB system.
5. Define frequency modulation.
6. What is crossover network?
7. What is loud speaker?
8. What is interlaced scanning?

PART – B

9. Define characteristic impedance.
10. Define amplitude equaliser.
11. State the need for modulation.
12. What is AM VSB system?
13. Compare AM and FM.
14. What is pulse modulation?
15. Write short notes on tweeter.
16. What is aspect ratio?

[Turn over.....

PART – C

17. (a) Derive the iterative impedances of symmetrical T network.

(Or)

(b) Explain about yagi antenna with a neat diagram.

18. (a) Explain SSB transmitter with block diagram.

(Or)

(b) Explain superheterodyne receiver with neat block diagram.

19. (a) Explain the working of ratio defector.

(Or)

(b) Explain generation, detection of PPM signal.

20. (a) Explain the working of piezoelectric microphone with a diagram.

(Or)

(b) Explain the construction and working of cone type loudspeaker.

21. (a) Draw the block diagram of monochrome TV transmitter and explain it.

(Or)

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