

October 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. Define a symmetrical network.
2. Define directive gain.
3. Define modulation.
4. Define AGC.
5. List the types of pulse modulation schemes.
6. What is crossover network?
7. What is meant by scanning?
8. What is DTS system?

PART - B

9. Compare equaliser and attenuator.
10. Write about need for modulation.
11. Compare high level and low level AM transmitters.
12. Define frequency modulation and draw signal diagram for FM.
13. Draw a diagram for PAM signal generation.
14. Compare carbon and condenser microphones.
15. Compare woofer and tweeter.
16. Draw a diagram for composite video signal.

PART - C

17. (a) Explain about parabolic antenna with a diagram.

(Or)

(b) Explain about sky wave propagation.

18. (a) Explain the working of high level AM transmitter.

(Or)

(b) Explain the working of SSB receiver.

19. (a) Explain the working of direct FM transmitter.

(Or)

(b) Explain the working of stereophonic FM receiver.

20. (a) Explain the working of moving coil microphone.

(Or)

(b) Explain the working of DVD system.

21. (a) Explain the working of monochrome TV transmitter.

(Or)

(b) Explain the working of colour CCD camera.
