

October 2019

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 radiation pattern.
3. List the types of various side band signals in AM.
4. What is meant by AGC?
5. List the components of composite video signal.
6. Define a microphone.
7. List any two advantages of velocity ribbon microphone.
8. List the types of pulse modulation schemes.

PART – B

9. Compare LPF and HPF.
10. List the components of Yagi antenna.
11. Draw a diagram of TRF receiver.
12. How do you select an IF signal?
13. Define AFC.
14. Compare woofer and tweeter.
15. List the various TV broad casting standards.
16. Write a note on DTS system.

[Turn over.....

PART - C

17. (a) Explain about parabolic antenna.
(Or)
(b) Explain about ground wave propagation.
18. (a) Explain the working of HL AM transmitter with a block diagram.
(Or)
(b) Explain the working of an AGC circuit.
19. (a) Explain the working of direct FM transmitter.
(Or)
(b) Explain the generation of PCM signal.
20. (a) Explain the working of condenser microphone with a diagram.
(Or)
(b) Explain the working of DVD system.
21. (a) Explain the working of color CCD camera.
(Or)
(b) Explain about plasma display system process.
