Register No.:

477

October 2017

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. List the types of equaliser.
2. Define a filter.
3. Define amplitude modulation.
4. Define VSB signal.
5. List the types of FM transmitters.
6. What is MP3 system?
7. What is an aspect ratio?
8. What is the use of cable TV?

PART – B

9. Compare symmetrical and asymmetrical networks.
10. List the types of antennas.
11. Draw a diagram for amplitude modulation signal with components.
12. Write down the expressions of amplitude modulation and modulation index for the same.
13. Draw a circuit diagram for DPCM transmitter.
14. List the principles of Hi-Fi system.
15. Compare LED and LCD displays.
16. Draw a diagram for CCTV system.

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PART – C

17. (a) Explain about the different types of filters.

(Or)

(b) Explain about dipole arrays.

18. (a) Explain the working of SSB transmitter. Write its advantages.

(Or)

(b) Explain the working of superheterodyne AM receiver.

19. (a) Explain about stereophonic FM transmitter.

(Or)

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

20. (a) Explain the working of dynamic cone type loudspeaker.

(Or)

(b) Explain the working of stereophonic system.

21. (a) Explain the working of LCD display unit.

(Or)

(b) Explain the working of handy cam.

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