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April 2019

<u>Time - Three hours</u> (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 an attenuator.
- 2. List the types of filters.
- 3. Write a relationship between wavelength and frequency.
- 4. List the types of AGC circuits.
- 5. What are the basic colors of a color TV signal?
- 6. List the types of microphones.
- 7. What is a surround sound system?
- 8. Define a PAM signal.

PART - B

- 9. Define directive gain of an antenna.
- 10. How does ground wave getting propagated?
- 11. Compare DSB, SSB and VSB signals.
- 12. Draw a diagram for the generation of PAM signal.
- 13. Compare carbon and condenser microphones.
- 14. Draw a diagram of electro-static loud speaker.
- 15. Draw a diagram of composite video signal with components.
- 16. Draw a diagram of a cable TV system.

[Turn over....

PART - C

17. (a) Explain about monopole and dipole antennas.

(Or)

- (b) Compare space wave and sky wave propagation methods.
- 18. (a) Explain low level AM transmitter of its working with a block diagram.

(Or)

- (b) Explain about super heterodyne AM receiver with a block diagram.
- 19. (a) Explain the working of stereophonic FM receiver.

(Or)

- (b) Explain the generation and detection of PWM signal.
- 20. (a) Explain the working of moving coil microphone with a diagram.

 (Or)
 - (b) Explain about the recording process in compact disc system.
- 21. (a) Explain the block diagram of mono chrome TV receiver.

(Or)

(b) Explain how a LCD display functions in a TV receiver.

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