

976

October 2015

096

Time - Three hours  
(Maximum Marks: 75)

*[N.B: (1) Answer any fifteen questions in PART - A and division (A) or division (B) of each question in PART - B.*

*(2) Each question carries 1 (one) mark in PART - A and 12 (twelve) marks in PART - B.]*

PART - A

1. What is an attenuator?
2. What is constant resistance equaliser?
3. What is an antenna?
4. Mention the types of propagation.
5. Mention any one need for modulation.
6. List the types of AM signal.
7. What is meant by IF?
8. Mention the types of AGC.
9. Compare AM and FM.
10. Expand DPCM.
11. Define frequency modulation.
12. What is meant by quantising noise?
13. Compare piezo-electric and moving coil microphones.
14. What is a surround sound system?
15. What is a stereophonic system?
16. What is Dolby system?
17. Define aspect ratio.
18. Mention the types of scanning.
19. What is plasma display?
20. What is the use of cable TV?

[Turn over.....

PART - B

21. (A) Explain about yagi antenna with a neat diagram.  
(Or)  
(B) Explain about space wave propagation with diagram.
22. (A) Explain about phase shift method of SSB generation.  
(Or)  
(B) Explain SSB receiver with block diagram.
23. (A) Explain about varactor diode FM modulator with a diagram.  
(Or)  
(B) Explain generation and detection of PAM signal.
24. (A) Explain the working of piezo-electric microphone with a diagram.  
(Or)  
(B) Explain the working of crossover network.
25. (A) Explain the block diagram of PAL colour TV receiver.  
(Or)  
(B) Write notes on: (i) Plasma display (ii) Handy cam.

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