

CBSE Question Paper – 2010

RADIO ENGINEERING AND AUDIO SYSTEMS

(Theory) paper I

Class – XII

Time allowed: 3 hour

Maximum Marks: 40

Instructions: Attempt all questions.

1. Explain the need for modulation in radio transmission.
2. Write equation for an AM wave. What are the various frequency components Present in the AM signal?
3. Explain the role of capacitor in linear diode detector.
4. Compare FM with AM.
5. Explain the term 'radiation resistance of antenna'.
6. Explain the term 'directivity of antenna'.
7. Draw sketch of ferrite rod antenna. Give applications of this antenna.

Other Educational Websites:

ICSEGuess.com | NIOSGuess.com | IGNOUGuess.com | IITGuess.com | MagicSense.com | AIPMTGuess.com |
AIEEEGuess.com | IndiaGuess.com

8. Give frequency ranges of VLF, LF, HF, UHF and Microwave.
9. Draw block diagram of AM broadcast transmitter.
10. If the I_f is 455kHz, what will be local oscillator frequency to receive a signal
Whose carrier frequency is 1000 kHz?
11. Draw block diagram of a super heterodyne AM radio receiver.
12. Draw circuit diagram of RF amplifier stage in a radio receive.
13. Which stage is responsible for motor boating fault in a radio receiver?
14. Is there a loudspeaker that can be used as a microphone too? Name it.
15. Draw sketch of moving coil microphone.
16. For a public Address system, which type of loudspeaker is generally used?
17. How is sound recorded on discs?
18. Draw block diagram of hi –fi system.
19. Explain principle of reproducing sound from recorded magnetic tape.
20. Explain the need of P.A. system.

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