CBSE Class 12 Electronic Technology 2013 - Set 115/1

Question Paper

Conducted by the Central Board of Secondary Education (CBSE)

Time Allowed: 3 Hours **Maximum Marks: 40**

General Instructions

(i) Attempt all questions. Each question carries four marks.

Questions

1.

(a) Explain the need for modulation in radio communication.
(b) Write equation for an A.M. Wave. What are the different frequency components present in the modulated signal ?

2.

How do you detect A.M. Wave ? Give diagram of one such circuit and explain.

3.

Explain the need of antenna to transmit/receive radio signals.

4.

(a) Name different parts of Yagi antenna in its sketch.
(b) What are the limitations of ground wave propagation ?

5.

Draw block diagram of an A.M. broadcast transmitter and explain.

6.

Draw circuit diagram of converter stage of A.M. receiver and explain its working.

7.

(a) A radio receiver is dead. How will you proceed to locate the fault ?
(b) Draw sketch of a moving coil microphone.

8.

Draw sketch of a direct radiating loudspeaker and explain its working.

9.

Draw block diagram of tape recorder and explain its working.

10.

(a) Explain concept of stereophony.
(b) Draw block diagram of P.A. system.

- End of Question Paper -