CBSE Class 12 Electronic Technology 2011 - Set 115

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 modulation signal ?

2.

Draw circuit diagram of linear diode detector and explain its working.

3.

Why do we need an antenna to transmit/receive radio signals ?

4.

(a) Sketch Yagi antenna and name its different parts.
(b) What are the limitations of sky wave propagation ?

5.

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

6.

Draw circuit diagram of convertor 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 constructional sketch of a moving coil microphone.

8.

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

9.

Draw block diagram of a tape recorder and explain its working.

10.

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

- End of Question Paper -