CBSE Class 12 Electronic Technology 2012 - 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 difference between CW and Pulse modulation.
(b) If 1000 KHz carrier is amplitude modulated by a 1 KHz tone, what are the frequencies present in the modulated signal ?

2.

Explain 'diagonal clipping' in linear diode detector circuit. How can it be avoided ?

3.

What is the ideal radiation pattern of an antenna used in broadcasting service ?

4.

(a) Sketch a half wave dipole antenna and give its radiation pattern.
(b) Give frequency ranges of VLF, LF, HF, VHF, UHF and Microwaves.

5.

Explain the principle of superheterodyning. Give its advantages.

6.

Draw circuit diagram of audio stage of a radio receiver and explain its working.

7.

How is a fault condition 'Motor Boating' in radio receiver remedied ?

8.

Give applications of moving coil type, ribbon type, condenser type and crystal type microphones.

9.

Explain principle of sound recording on magnetic tapes.

10.

(a) Draw block diagram of hi-fi system.
(b) Explain the need for P.A. system.

- End of Question Paper -