CBSE Class 12 Electronic Technology 2004 - Set 116

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 two marks.

Questions

1.

Give values of the following :
(a) Frame frequency
(b) Field frequency
(c) Line frequency

2.

Give functions of synchronising and blanking pulses in composite video signal.

3.

Draw sketch of plumbicon camera tube and label its important parts.

4.

Whereas F.M. is used for sound signal, A.M. is used for picture signal of a T.V. channel. Justify their choice.

5.

Give major specifications of CCIR-B standards.

6.

Which are the common stages in a monochrome T.V. receiver ? Draw a block diagram.

7.

Explain the functon of video amplifier stage with the help of a neat circuit diagram.

8.

Explain the functions of A.G.C. in a T.V. receiver.

9.

What is happening inside a T.V. receiver when you adjust the contrast control ?

10.

Name at least three controls of a T.V. receiver which are accessible to a technician only.

11.

No picture, but sound is O.K. and raster is also O.K. Where is the fault ?

12.

Only a horizontal line on the screen, sound is O.K. Identify the faulty stage.

13.

Name primary colours of colour T.V. and explain their significance

14.

Draw block diagram of a colour T.V. camera.

15.

Explain the basic features of a PIL colour picture tube.

16.

Draw block diagram of the picture section of a PAL T.V. receiver.

17.

Draw block diagram of a T.V. transmitter.

18.

Discuss the principles of video reproduction from recorded magnetic tape.

19.

Describe various V.C.R. controls.

20.

Draw block diagram of a V.C.R.

- End of Question Paper -