TELEVISION AND VIDEO SYSTEMS
(Theory) Paper III

Time allowed : 3 hours
Maximum Marks : 40

Instructions : Attempt all questions. Each question carries five marks.

1. What do you understand by the term scanning ? How does it help in transmission and reception of pictures ?

2. What are equalising pulses ? Justify their need.

3. Draw a constructional sketch of Plumbicon camera tube and explain its working.

4. Draw block diagram of a monochrome T.V. receiver and explain the function of each stage.

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5. Following symptoms are observed in a faulty T.V. receiver. Identify the faults.
   
   (a) Sound O.K., only a horizontal line on screen.
   
   (b) Raster O.K., no sound, no picture.

6. Draw constructional sketch of delta gun colour picture tube and explain its working.

7. Draw block diagram of a colour T.V. transmitter and explain its working.

8. Describe various VCR controls with the help of a block diagram of VCR.
   
   VCR के व्याख्यात चित्र की सहायता से VCR के विभिन्न कंट्रोल का वर्णन कीजिए।