Seat No. : _____

NO-122

November-2017

B.Sc., Sem.-V

Ele ve - 305 : Electronics
(nsumer Electronics)

Time : 3 Hours] **[Max. Marks : 70**

Instructions : (1) Atten all questions.

(2) Symbols used here have their usual meanings.

1. Answer any **two** of the following : **20**

   (a) With block diagram explain principle, working & features of Condenser Microphone.

   (b) Explain Moving Coil Microphone in detail.

   (c) With block diagram explain principle, working & features of Horn Loudspeaker.

   (d) Draw & explain working of Cone Type Loudspeaker. Give its advantages & disadvantages.

2. Answer any **two** of the following : **20**

   (a) With block diagram explain Horizontal and Vertical Scanning in detail.

   (b) Discuss about Black and White Picture tube in detail.

   (c) Explain the significance of carrier frequency and side band frequency.

   (d) Explain Persistence of Vision and Aspect Ratio in detail.

3. Answer any **two** of the following : **20**

   (a) Explain in detail about Optical Recording Medium and Video Disc.

   (b) Discuss Solid State LASER in detail.

   (c) Give Video Disc System Comparison in detail.

   (d) Write a short note on Optical Memory Disc.

4. Answer the following : 10

(1) A _____ is a transducer which converts variations of sound pressure into electrical signals of the same frequency.

(2) Give disadvantages of Ribbon Microphones.

(3) If size of the baffle is much larger than half the wave length, it is known as _____baffle.

(4) Define : Directivity.

(5) Give full from of NTSC.

(6) Write the full form of UHF.

(7) Kell factor varies from 0.65 to _____.

(8) The emf produced during horizontal retrace time is known as _____ emf.

(9) Explain the use of Tellurium-Selenium Alloy.

(10) Give full form of LASER.
