# **1808E315** Car

Candidate's Seat No :

### B.Sc. Sem-5 Examination S.E 305

#### **Electronics (A) Consumer Electronic**

Time : 2-00 Hours]

August 2021

[Max. Marks : 50

## Instructions: All Questions in SECTION – I carry equal marks Attempt any THREE questions in SECTION – I Question IX in SECTION – II is COMPULSORY

#### **SECTION - I**

Q.I	(A)	With diagram explain construction, working & features of Condenser Microphone.	7
	(B)	With diagram explain working & advantages of Electro-dynamic Loud speaker.	7
Q.II	(A)	With diagram explain construction, working & features of Crystal Microphone.	7
	(B)	With diagram explain construction, working & features of Horn Loudspeaker.	7
Q.III	(A)	Explain elements of a Television System. Also explain Persistence of Vision and flicker.	7
	(B)	Explain Side Band Frequencies arising when a 20 kHz carrier is AM with a frequency 4 KHz.	7
Q.IV	(A)	With the help of figure explain Interlacing of Scanning Lines in detail.	7
	(B)	With the help of diagram explain a typical Monochrome TV Camera.	7
Q.V	(A)	Write a short note on Te-Se Alloys, Organic compounds & magneto optical materials.	7
	(B)	Discuss about video disc systems comparison. Explain Recording System with figures.	7
Q.VI	(A)	Explain in detail regarding video disc formats and LASER vision.	7
	(B)	Write a short note on Optical Memory Disc.	7
Q.VII	(A)	With diagram explain construction, working & features of Carbon Microphone.	7
	(B)	With diagram explain construction, working & features of Moving Coil Loudspeaker.	7
Q.VIII	(A)	Explain Vidicon Camera Tube in detail with diagrams.	7
	(B)	Write a short note on evolution of video disc.	7
		SECTION – II	
Q.IX	Atter (A) (B) (C) (D) (E)	<pre>mpt any EIGHT A moving coil microphone works on the principle of emf. Crystal microphone is based oneffect. The wooden cabinet used for radio and TV receiver sets is a baffle. If size of baffle is much larger than half the wave length, it is known as baffle. The composite video signal locks in the frequency and phase of the frame and oscillators.</pre>	8
	(F) (G)	In video signal, the voltage representation of every line scanned is separated from the next by the interval. The method of scanning, where the odd & even lines are alternately traced is called scanning.	
	(H) (I) (J) (K) (L)	The image formed on the retina is retained for about ms even after optical excitation has ceased. Pit depth of video disc is approximately Average pit width in video disc is is the cheapest and the most basic of the three video disc formats. The RCA stylus recovers information from the disc surface by direct means.	
	(L) (M)		

- (N) A \_\_\_\_\_ pass filter having a cut-off frequency of 5000Hz feeds the tweeter.
- (O) The highest video frequency depends on the number of \_\_\_\_\_.
- (P) Average track pitch in video disc is \_\_\_\_\_.