(c) What are the essential requ	irements for good public
address installation? Ho	w can these be met in
practice? CSVTU	online.com
(d) Explain the working of the	ne public address system
with the help of a neat blo	ock diagram. 7
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Unit-V	7
5. (a) What is the function of ar	air bag system in auto-
mobiles?	2
(b) Explain the working of car	navigation system. 7
(c) Draw the block diagram of	microwave oven. Briefly
explain each block.	7
(d) Explain the sequence of op-	perations in a wash cycle. 7
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B. E. (Eighth Semester) Examination, April-May, 2016

(New Scheme)

CSVTUonline.com

(ET & T Engg. Branch)

CONSUMER ELECTRONICS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and attempt any two parts from (b), (c) and (d). Part (a) carries 2 marks and (b), (c) and (d) carries 7 marks.

CSVTUonline.com Unit-I

 (a) Justify the choice of a rectangular frame with width to height ratio equal to 4/3 for television transmission and reception.

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	(b) Explain the principle of working of vidicon camera tube. CSVTUonline.com (c) Write short notes on the following: (i) Flicker	7			Name the primary and complementary colours used in colour TV. What is GRASS MAN'S Law? Explain how the three primary colours combine to from white? CSVTUonline.com Unit-III	7
	(-)	7	0	3.	Define sensitivity of Microphone. What is its SI unit? Explain the parameters on which quality of microphone depends.	2
2.	Unit-II (a) What do you understand by compatibility between monochrome and colour television systems?	2			Explain the working principle of a moving coil micro- phone with the help of a neat sketch. Give typical values of its parameters and mention its applications.	7
	(b) Sketch composite video signal waveform for atleast three successive lines and indicate (i) extreme white level (ii) blanking level (iii) pedestal height and (iv) sync, pulse level. CSVTUonline.com				Explain the various steps involved in reconstitution of the audio signal. Unit-IV	7
	(c) Explain briefly how the human eye perceives bright- ness and colour sensations. Comment on the spectral response of the eye. Why it is not necessary to trans- mit colour video information beyond about 1.5 MHz		0 	4.	Why is a loudspeaker called a reverse transducer? CSVTUonline.com With the help of neat sketch, explain the principle of working of a horn-type loudspeaker. What are the advantages and disadvantages of a horn-type speaker relative to cone-type?	