



CBCS SCHEME - Make-Up Exam

BEC/BVL654B

Sixth Semester B.E/B.Tech. Degree Examination, June/July 2025 Consumer Electronics

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
1	a.	What is a Microphone? Mention the requirements for a Microphone.	7	L2	CO1
	b.	Explain briefly the different qualities of Microphone technically for its use.	7	L2	CO1
	c.	Mention the important features of loudspeaker with their significance.	6	L1	CO1
OR					
2	a.	With a neat diagram explain the construction and working of an Electrodynamic loudspeaker.	6	L2	CO1
	b.	Explain the working principle of Horn loudspeaker with a neat diagram with its advantages and disadvantages.	7	L2	CO1
	c.	List the features of Ribbon Microphone. Mention its advantages, disadvantages and applications.	7	L1	CO1
Module – 2					
3	a.	What are the advantages and disadvantages of using Audio Compact discs for sound recording. Explain in detail.	7	L1	CO2
	b.	Describe the process of optical recording in audio CD with relevant diagrams.	7	L2	CO2
	c.	Explain briefly the Geometry of Audio Disc with relevant diagram.	6	L2	CO2
OR					
4	a.	Describe the En-Coding process and Error Correction in Audio Compact Disc.	10	L1	CO2
	b.	Explain in steps the details of Play Back Process in Audio CD.	10	L1	CO2
Module – 3					
5	a.	Write a short note on Primary colours, Tristimulus values.	6	L1	CO3
	b.	Apply the knowledge of Mixing of Primary Colours and explain the following: i) Additive Mixing of Colours. ii) Subtractive Mixing of Colours.	7	L2	CO3
	c.	Analyze the colour circle with detailed explanations of spectral and Non-spectral colours.	7	L2	CO3
OR					
6	a.	Analyze and describe the various colour specifications.	10	L2	CO3
	b.	Explain with a relevant block diagrams Digital T.V. or HDTV.	5	L2	CO3
	c.	Write a note on VSB transmission and B, P, I frames.	5	L1	CO3
Module – 4					
7	a.	Describe and analyze how a video monitor is different from television receiver.	6	L4	CO4
	b.	With a neat block diagram explain the working of CCTV system.	8	L2	CO4
	c.	List the applications of CCTV and analyze the difference between each.	6	L2	CO4

OR

8	a.	Illustrate how cable television system is different from CCTV system with relevant diagrams.	8	L2	CO4
	b.	Demonstrate the working of digital watch / clock with suitable circuit and block diagrams.	7	L2	CO4
	c.	Demonstrate the architecture of an Electronic Calculator with its functional subsystems.	5	L2	CO4

Module – 5

9	a.	Illustrate the working of Mobile Telephone with the role of base station and cells in a cellular network.	8	L2	CO5
	b.	Distinguish between the working of pager and mobile telephone.	6	L2	CO5
	c.	Demonstrate the role of Inverter in working of UPS power supply system.	6	L2	CO5

OR

10	a.	Compare the conventional Ignition system with Electronic ignition system for Automobiles.	8	L2	CO5
	b.	Analyze the organization of digital computer with various functional components with a block diagram.	6	L2	CO5
	c.	Illustrate the recent Advances in consumer Electronics with examples.	6	L2	CO5

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