CBCS SCHEME

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BEC/BTE/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
Q.1	a.	What is Microphone? Explain the desirable characteristics of a microphone.	10	L2	CO1
	b.	What is loudspeaker? Explain in detail the cone type loudspeaker.	10	L2	CO1
		OR			
Q.2	a.	Explain moving coil type microphone. List out the importance features of moving coil type microphone.	10	L2	CO1
	b.	Explain high fidelity system. List out the ideal characteristics of ideal speaker.	10	L2	CO1
		Module – 2			
Q.3	a.	Explain the details of compact disc.	10	L2	CO2
	b.	Explain playback process with necessary diagram.	10	L2	CO2
		OR			
Q.4	a.	Explain D/A converter. What are the care to be taken while handling CD?	10	L2	CO2
	b.	Explain geometry of audio disc. Explain the main differences between CD and magnetic tape.	10	L2	CO2
		Module – 3			
Q.5	a.	With the help of diagram demonstrate trichromatic coefficients and colour triangle.	10	L3	CO3
	b.	Explain recent advances in TV technology.	10	L2	CO3
		OR			
Q.6	a.	With the help of example demonstrate chromaticity diagram.	10	L2	CO3
	b.	Explain mixing of colours with necessary diagram.	10	L2	CO3
		Module – 4			
Q.7	a.	With a neat block diagram, explain the working of CCTV.	10	L2	CO4
	b.	With a neat block diagram, explain the working of electronic guessing game.	10	L2	CO4

		OR			
Q.8	**a.**	With a block diagram, explain the functioning of cable network.	**10**	**L2**	**CO4**
	b.	With a block diagram, explain the working of a calculator.	**10**	**L2**	**CO4**
		Module – 5			
Q.9	**a.**	Explain the working of UPS and inverter.	**10**	**L2**	**CO5**
	b.	Explain the working of ignition system for automobiles.	**10**	**L2**	**CO5**
		OR			
Q.10	**a.**	Explain the working of microwave oven.	**10**	**L2**	**CO5**
	b.	With example explain recent advances in consumer electronics.	**10**	**L2**	**CO5**

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