CBCS SCHEME

USN						BESCK104C/ BESCKC104
						BESCREIV-

First Semester B.E/B.Tech. Degree Supplementary Examination, June/July 2024 Introduction to Electronics and Communication

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.	Describe full wave bridge rectifier with relevant waveform? Memorize its measurable parameters.	7	L2	CO1
	b.	Explain how zener diode acts as voltage regulator. Discuss line and load regulation.	7	L2	CO1
	C.	Illustrate the difference between zener and avalanche breakdown.	6	L2	CO1
		OR			
2	a.	Discuss half wave rectifier with capacitor filter. Memorize ripple factor.	7	L2	CO1
	b.	Describe with neat sketch and working operation of RC coupled amplifier and specify frequency response with parameters.	7	L2	CO1
	c.	Discriminate half wave rectifier and full wave rectifier.	6	L2	CO1
		Module – 2			
3	a.	Describe the operation of crystal oscillator and state its applications.	7	L2	CO2
	b.	Discuss any two applications of OPAMP.	7	L2	CO2
	c.	State ideal and practical characteristics of OPAMP.	6	L2	CO2
		OR			
4	a.	Explain the concept for sustained oscillations of ladder type network oscillator.	7	L2	CO2
	b.	Define multivibrator and also discuss single stage astable oscillator using OPAMP.	7	L2	CO2
	C.	Describe various blocks of OPAM and discuss its measurable parameter.	6	L2	CO2
		Module – 3			
5	a.	i) Convert $(725.25)_8$ to () ₁₀ and () ₂ ii) Determine the value of x if $(211)_x = (152)_8$	7	L3	CO3
	b.	Discuss the different theorems and postulates of Boolean Algebra and prove each of them with truth table.	7	L2	CO3
	c.	Find the complement of functions F_1 and F_2 i) $F_1(x, y, z) = x'yz' + x'y'z$ ii) $F_2(x, y, z) = x (y'z' + yz)$.	6	L3	CO3
		1 of 2	I		1

BESCK104C/ BESCKC104

o and NOR	7	L3	CO3
nd deduce expression for sum	7	L2	CO3
	6	L2	CO3
ts classification in contrast to	7	L2	CO4
ith silent features.	7	L2	CO4
A STATE OF THE STA		1.3	COA
	6	L2	CO4
*			
1:	7	1.2	CO4
and state its applications.	7	L2	
	6	L2	CO4
	7	L2	CO4
MI and transmission efficiency.	7	1.2	CO5
gation.	7	L2	CO5
A. A	6	L2	CO5
on system and describe MI and	7	1.2	CO5
ystem.	6	L2	CO5
ication system.	7	L2	CO5
ic	ation system.	ation system. 7	ation system. 7 L2
