Q.P. Code: 19EC040/



## Q.P. Code: 19EC0407

## UNIT-IV

117

L1

4M

7	a	Discuss Complementary Symmetry Class B Push Pull Power Amplifier with	L3	6M
		neat diagram and determine its efficiency.		
	b	Write notes on crossover distortion in class B power amplifier.	L3	6M
		OR		
8	a	With circuit diagram, describe the stagger tuning operation. Sketch necessary	L3	7M
		graph.		
	b	The bandwidth of a single tuned amplifier is 20 kHz. Determine the bandwidth	L3	5M
		if three such stages are cascaded. Also calculate the bandwidth for four stages.		
		UNIT-V		
9	a	Deduce the expression for time period, T in Astablemultivibrator.	L4	<b>8M</b>

## OR

**b** List the applications of Astable and Monostable multivibrators.

- 10 a Why the triggering is needed for multivibrators? Explain a triggering method L2 6M for monostable multivibrator.
  - b Calculate the stable state currents and voltages for the bistable multivibrator L4 6M having VCC = 12 V, VBB = -12 V, RC1 = RC2 = 2.2kΩ, R1=R2 = 15kΩ, R3=R4 = 100kΩ, C1 = C2 = 0.1µF. Assume that a transistor having a minimum h<sub>fe</sub> of 20 is used.



\*\*\* END \*\*\*