



	OR		
16	(a) Draw and explain the operation of full wave rectifier with L-section filter. (6M) (b) In a full wave using LC filter $L=15H$, $C=50\mu F$, $R_L=100\Omega$. Calculate V_{dc} for an input of $V=20\sin\omega t$ by choosing $R_f=R_s=70\Omega$. (4M)	3	L2
17	Explain input and output characteristics of CE configured transistor circuit with a neat circuit diagram. (10M)	4	L2
	OR		
18	(a) Explain the operation of NPN Transistor. (6M) (b) The emitter current in transistor is 4 mA. If the leakage current I_{cbo} is 6 milli amps and Alpha is 0.98, find the collector and base currents. (4M)	4	L2
19	Explain Drain & transfer characteristics of JFET and give the advantages of JFET. (10M)	5	L2
	OR		
20	Explain the construction and operation of a Enhancement MOSFET and draw its characteristics. (10M)	5	L2