	(a)	Apply Kruskal's algorithm to G. List the edge of the forest that is grown, in the order that they added.	10
	(b)	What is the weight of minimum spaning tree in G?	6
		UNIT - IV	
4	(a)	What is zero-one principle? Describe in detail.	8
	(b)	Prove that if a comparison network with n input sor all 2 ⁿ binary string of length n correctly, then it sor all sequence correctly.	ts
			8
		OR	
4	(a)	Explain the bitonic sorting network with suitable example.	0
	(b)	Write short note on :	8
		(i) Priority Queue (ii) Operations on disjoint sets.	
		(ii) Operations on disjoint sets.	8
		UNIT - V	
5	(a)	Describe the Chinese remainder theorem.	. 8
	(b)	What is Division theorem ? Explain.	
			8
		OR	
5	(a) (b)	ite short note on : Computation of Discrete logarithm Modular Arithmetic	
			16