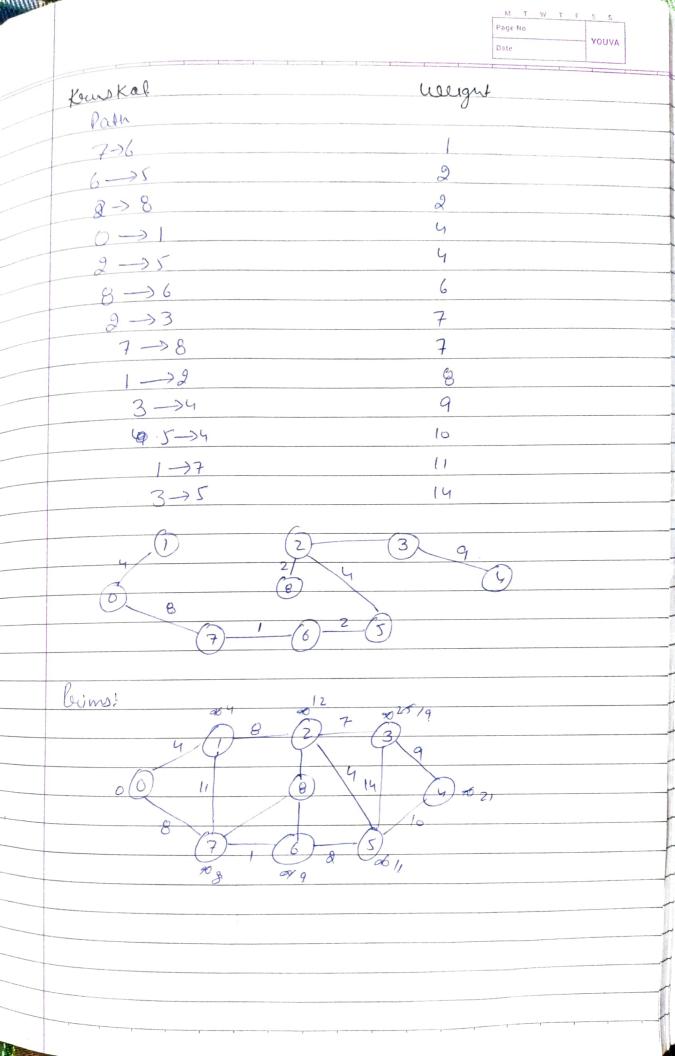
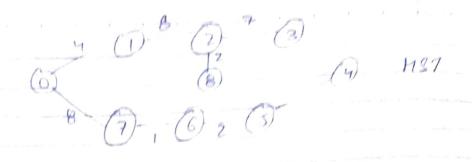
				Page Ha.: YGUVA
A		Tutoval - 6.		Data:
Quer i)	what do you mean by Hinimum spanning dues			
/	4 minimum spanning tree or minimum reeigns			
1-,	Spanning tree is a subset of the eagle of a connected			
·	, edge - weighted undirected graph, all en vertius			
۸,	Angether, weithout any cycle and weller the			
<u></u>	minimum passible total edge meight.			
<u></u>	Application: - Defining local due Network.			
÷-,				
^-,	erail wood, spanning several kilies, Mon we use			
	the concept of MS), In conne.			
	« To leduce cost, you wer les concept of MS7 10			
	Connect the houses.			
	0.0			
Cless	Please analyse the time and space complexity of pei ms, Kruskar, dijkstra, and Bellman ford algo.			
-				
	Algorithm	Time complexits	Space com	Rlenis
- }	The state of the s			
	Brims	0(v2)	O(V+E)	
	Kouskal	O(Elegy)	Ollog (E))
	Dijkstra.	O(V+E)	0(1+8)	
	Bellman	O(VE	O(v)	
1 (2)				The 14 control of the desire and the
(1)	Apply busm and Kruskal algorithm on In graph to compute MSI and its creeignes.			
	11 7 8 4 14 (9)			
	8			
	(1) (3) 2 (8)			
	The last the same of the same of			





Out bien a weighted graph. You are alsogie els Shortess part from a source verter & to a give destination verter. "I". Does It shortess gash lumain same in the modified graph in the

Sol

Ques 5

Soch

De shortest poor may charge. The relator is class how of edges in different parts from 15 archer, for example. Let shortest port of beight 15 archer, sedges. Let there he another path breith sedges and hotal beight is 25. The neelight of the Shortest is in Creased by 5°10. become 15+50, weight of other path is increased by 3°10, it become 25°38.

So the shortest poth thanges to the other posts
whose weight is 45.

Delight we multiply all edges weighted by 10, the

Simple neight of all poths from Stot.

→

