Our-1. What do you mean by Mininum s	banning tree 9
What is the application of U MST.	The state of the s
Solh: A minimum spanning tree or weight spanning tree is a subset	minimum
weight stanning tree I is a subset	of the edges
of a connected , edge-weighted undin	exten arabi
that connects all the vertical together	Light James
cycle and with the minimum possible total	al adage
Act and active the minimum bossible for	leade meight.
Application:	0
· Designing Local Area Network	
- Louis Libelium Connection Malan	1911 - 01
· Laying pipelines connecting offshore	drilling sitex,
refinences and consumer markets	U ₀₁
· Suppose you want to construct highways	s or railroads
spanning several cities then we use the	concept of MST.
· To reduce cost, you use the concept of r	1ST to conhect
the houses.	
A A	1 0
Our. 2 Please analyse the time and space comp Knuskal, dijkstrue and Bellman ford algorithm	lexity of Immas
Knuskal, dijkstood and Bellman ford algorithm	n. 0
Soln:	
Algorithm Time complexity	Space complexity
Pams 0(V2)	The state of the s
knuska) O(ElogV)	0(V+E)' U
Bellman ford O(V+E)	0(v+ &)
Bellmantord O(VE)	0(v)





