

IBA Institute of Business Administration CSE317 DESIGN & ANALYSIS OF ALGORITHMS (Spring'19) $Quiz \ \#5E$



Time Allowed: 10 minutes Max Marks: 10

Name:				ERP:
Question 1:				10 marks
Solve the following instance of the	he discrete K	Knapsack Probl	em (without	repititions) with four items where
the maximum allowed weight is	$W_{max} = 5.$			
	Item (i)	Weight (w_i)	Value (v_i)	
	1	3	5	
	2	4	6	
	3	1	2	
	4	5	7	
(a) [3 marks] Write the recurr				
(b) [7 marks] Use the recurren	ace from the	above part an	d fill in the f	ollowing matrix.

	0	1	2	3	4
0					
1					
2					
3					
4					
5					