NAME: SHISHU Assignment-4 REG : 2020 CAORS Questions solution In greedy Algorithm, we make whatever choice seems beat at pre mement and then some me sub problems arising offer the choice is made. Question 2 solution Recursive Algo for activity-solection-problem RAS(SIFIKIN) S m 2 K+1 while m < n and stm] < f[k] m = m+1 If msn return & m & u RAS(S, f, m, n) else return 0 Question3 Solution Any change we make to the greedy also. Simply change the way of reading the target value. If does not account for the minimum coins wed To put better a better way a strike move does not exerted for this problem A higher demonation coin may yield taiget 2020CA089 SHISHU

SHESHU 20 20 CA 0894 but it is not safe move quickly Question 4 Solution. Given a:1, b:1, C:2, d:3, e:5, f:8 9:13. h:21, Since more are 8 letters in alphabet, the intial queue size is n=8 and 7 merge steps are liquired. h:0 9:10 f:110 e:1110 1 0 Question 5 Solution. fractional knapsack Algo: for each item, compute its value/ weight ratio. step2: Arrange all the stems in decreasing order of their value/wt ratio. Step 3. Start putting Hem into the Knapsack tog from the item with the heighest ratio. put as corray êtens can buto the knap sack. we can but o (Ign) & due to sorthy SMILHO 2020 CA 089