Question on clusterine Dexiste in your can roods what three chylenn approach we teamet and use appropriate II- Jucien 10 descripe. Furthe point out from each the algorithm ochanters and disachanteres. 1) we have those A-Mean chypering Hirarchical diwerine and DBSCAIN, who is used when data all of Her are unsupervised learner dere have no pere-defined labels. 2) Moment is a prototype based learner which means that cluste is represented by a prototype with a: - Control (Querces) - Continous features - Mehoid (The most representative or most frequently occurring - In case of acceptable features Further it is a particlered larner, which lisically means a App-down approach and divides data into non-overlapping subsets of cluser 800 WRONG CORRECT M-means in an optimisolien problem as he these to minimize He point. 3) D simple to understand 1 Vol sullable for speciel D work well on small and large debates of singles to initional seeds 1 Performant (=) servilve to outlier

3) Hirarchical austering generates sets of cluster

Until at last all at the points one all in a single cluster or in other terms a set of nested clusters organized as a hierarchical tree. - There are me main approaches to themselical elustrine, · Divine (107 Down) · Agalomerative (Button up Approach) - To finh the description to a dister there is Minhoga (Phylance Retween the Chyler) used also, there one two kinds of opposites · single linkage (closest point) - complete linhage (Further points) 3/1/2 an devange is Afal the number of clusters are mor kan in believe, and the dok can be visualized by a dendrogram, this is a Tree like insul representation of the observations. 1 Derdhogram (7) No need to specify theliter in advance 3 Not appropriate for long Datesets

4) DRSCAN The Dentil - based Spatial Clustening of Application with moise is a much more advanced according and is much note However many things need to be given at inthat steepe set as the specification of radius are the minimum of numbers of Points. - The nation of density in DBSCAD is defined as the number of pointr within a specified modius E. - Tere on three Minds of special Labels Bordo core Oc - cone point = where drenning is at max > Boyele = has lever points as neighbor as min points. - Newse = all other paints that one neight one new border (+) good for outhers @ onume sperical shapes () different from u-mount and hierarchical 1 Input parameter.