the major idea is to try and classify data by maximizing P(X/Ci) P(Ci) wring the Bayes thereon of posterior probability. exercipation restantises of secondary (E.B. eucres vaitanificals people of leads escenseal segal, noitarificeals segas no 1902 when given a set of training tuples, will construct generalization model defore receiving new duples to classify. We can think of a sound model as being ready to see eager to classify cheeriously amseen tuples. trateris escenscal ant, noitaificeal year no lebor your great exafed sturing teal out litrus tion construction in order to classify a given test tuple. That is, when Jeven a toring stuple, a eiti litur tion d'ii socote plymis sensorel prob given a dest stuple. Q.4 Use an cerample to show why the K-moons, algorithm may not find the global of timum, that is oftenizing within-cluster variation. Sol" K means algorithm does not give oftimal & results
when the clusters care of diffe density & size, If
the cinitial centres are not rightly dished, the
solution can get stick on local maxima instead of going for global maxima or oftimum.

The feellam of clustering Notations into M classes may be exegated as a case where K means algo.

may not find the global optimum. The K-means algorithm is unable to avoid the clustering results and are trapped into a docal oftimum 2.5) Both K-means and K-madoids algorithms can checould effective clusterate abustants of the strength of the strength of the secondary of the Sol The K-means algorithm is a well cknown hartitioning method for clustering. It dakes Ky as input parameteral partition of a set of n objets from Ky clusters. But this algorithm is not affective when used with global cluster. If the density dustrable affected size then this algorithm cont handle whet-medoids algorithm is used toofind medoid in a cluster which is centre clarated spoint of a cluster. It is more rolust other K-means as in this we find k as a orepresentative object to minimize the sum of dissimilarities of This shows K-medoids is botter in all aspects but with the deaulrack that the complexity is high as composed to K-means.