

Artificial Intelligence

Assignment no 5

Unsupervised Learning

Qno:1

Apply k-mean clustering on the given data.

Medicines	X	Y
M1	2	10
M2	2	5
M3	8	4
M4	5	8
M5	7	5
M6	6	4
M7	1	2
M8	4	9

Let $C1 = (1, 4)$; $C2 = (3, 8)$; $C3 = (7, 2)$ are three arbitrary centers

Qno:2

Describe the difference between in k-mean and k-medoid clustering. Mention their time complexities and also their advantages and disadvantages.