Feedback — Optional Programming Assignment Quiz

Help Center

You submitted this quiz on **Tue 19 May 2015 10:30 AM PDT**. You got a score of **8.00** out of **8.00**.

Question 1

Cluster the quiz_A.data using k-means method and set K = 2. Based on quiz_A.ground, what is the purity?

Your Answer		Score	Explanation
0.427			
0.569			
0.820			
0.973	✔	1.00	
Total		1.00 / 1.00	

Question 2

Cluster the quiz_A.data using k-means and kernel k-means methods with K = 2. Based on Purity and NMI, which method is better?

Your Answer		Score	Explanation
K-means	✔	1.00	
Kernel k-means			
The two methods are indifferent			
Total		1.00 / 1.00	

Question Explanation

K-means has higher purity and NMI than kernel K-means.

Question 3

Cluster the quiz_B.data using k-means and kernel k-means methods with K = 2. Based on Purity, which method is better?

Your Answer		Score	Explanation
◉ Kernel k-means	✔	1.00	
○ The two methods are indifferent			
○ K-means			
Total		1.00 / 1.00	

Question Explanation

Kernel K-means has higher purity and NMI than K-means.

Question 4

Cluster the quiz_B.data using k-means with K = 2, K = 3, K = 4, and K = 5. Which K achieves the highest purity?

Your Answer		Score	Explanation
○ K = 5			
○ K = 3			
○ K = 4			
◉ K = 2	✔	1.00	
Total		1.00 / 1.00	

Question Explanation

When K = 2, the purity is largest with purity = 0.745.

Question 5

Cluster the quiz_C.data using k-means with K = 2. What is the NMI?

Your Answer		Score	Explanation
0.4575			
0.0006507	✔	1.00	
0.1201			
0.006507			
Total		1.00 / 1.00	

Question 6

Cluster the quiz_C.data using k-means and kernel k-means methods. Based on NMI, which method is better?

Your Answer		Score	Explanation
Kernel k-means	✔	1.00	
K-means			
The two methods are indifferent			
Total		1.00 / 1.00	

Question Explanation

Kernel K-means has higher purity and NMI than K-means

Question 7

Cluster the seed.data using kernel k-means methods with K = 2, K = 3, and K = 4. Based on NMI, which K is best?

Your Answer		Score	Explanation
K = 2			
K = 4			
K = 3	✔	1.00	
Total		1.00 / 1.00	

Question Explanation

K = 3 achieves the best NMI for kernel K-means.

Question 8

Cluster the seed.data using k-means and kernel k-means methods with K = 3. Based on Purity, which method is better?

Your Answer		Score	Explanation
Kernel k-means			
K-means	✔	1.00	
The two methods			
Total		1.00 / 1.00	

Question Explanation

K-means has higher purity than kernel k-means