X

Question 2

Please select the correct among the following statements concerning the Iterative Closest Points (ICP) algorithm:

✓✓ ICP works best if an initial rough estimation of the alignment of 2 point clouds is known.

✓✓ ICP provides a rigid transformation between 2 point clouds

✓  ICP provides an affine transformation between 2 point clouds

✓  ICP works best if the 2 point clouds are far from each other.

✓  ICP is guaranteed to provide the optimal transformation that best aligns 2 point clouds

uestion 3 1 / 1 point

Which of the following clustering results could have been produced using k-means?











**✓** A

**√** B

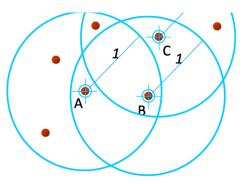
**√** □ D

**✓** ✓ E

Question 4 1 / 1 point

Consider the following points.





How would points A, B and C be characterized according to DBSCAN? (assume $\epsilon$ =1 and $MinPts$ =4)
A: core   B: border   C: border
A: core   B: noise   C: core
A: noise   B: border   C: noise
A: noise   B: border   C: core
A: noise   B: core   C: noise
A: border   B: noise   C: border
A: core   B: core   C: core
✓   A: core   B: border   C: core
Question 5 1/1 point
Consider a color image with dimensions 640x480 pixels. We would like to cluster its pixels making full use of both geometric and color information (including intensity/lightness).
How many clusters will the Mean Shift algorithm consider initially? (provide the exact number below)
Answer: 307200 ✓
Question 6 1 / 1 point
Consider a color image with dimensions 640x480 pixels. We would like to cluster its pixels making full use of both geometric and color information (including intensity/lightness).
What would be the dimensionality of the problem in this case?
<b>√</b> ® 5
<b>0</b> 4
○ 2
○ <b>3</b>

 $\label{eq:Attempt Score:100 \%}$  Overall Grade (highest attempt):100 %

Done