MACHINE LEARNING – WORKSHEET 6 ANSWERSHEET

1. A) Yes
2. A) Red
3. C) They are not optimal to use in case of outliers
4. A) It is the most optimal classifier in a completely linearly separable data.

B) It’s the classifier for which the margin length or the distance between the closest data-point on either side of the classifier and the classifier is maximized.

1. B) No
2. A) They are less sensitive to outliers and can be used even in their presence
3. D) All of the above
4. A) These functions gives value of the dot product of pairs of data-points in the desired higher dimensional space without even explicitly converting the whole data in to higher dimensional space

B) We have to first convert the whole data in to the higher dimensional space before applying the kernel function

1. C) It is a model trained using supervised learning. It can be used for classification and regression.
2. D) All of the above