Quiz -3(Regular)

Due Feb 20 at 21:00 **Points** 8 **Questions** 8
Available Feb 20 at 21:00 - Feb 20 at 21:30 30 minutes **Time Limit** 30 Minutes

Instructions

Time limit = 30 minutes

Total Marks = 8 (8 Questions of 1 mark each)

No negative marking will be given for wrong answers

This quiz was locked Feb 20 at 21:30.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	11 minutes	8 out of 8

Score for this quiz: **8** out of 8
Submitted Feb 20 at 21:11
This attempt took 11 minutes.

Question 1 — 1 / 1 pts

The objective function ||w^2||/2 must be minimized to:

- To minimize the number of support vectors
- To minimize the margins in SVM
- To maximize the margins in SVM

Correct!

- To maximize the number of support vectors

Question 2

1 / 1 pts

Suppose we have to solve a 3 class classification problem by training a Linear SVM model on the data (using the One-vs-all method).

How many times do we need to train our SVM model in such a case?

- 2
- 3 (Correct!)
- 6
- 1

Question 3

1 / 1 pts

Linear SVMs perform poorly if the classes are _____

- None of them
- Non linearly seperable (Correct!)
- linearly seperable
- Both

Question 4

1 / 1 pts

When data contains overlapping points and noise, SVM's are less effective

Correct!

- (●) True
- ( ) False

Question 5

1 / 1 pts

Hard margin allows a very low error in classification

Correct!

- (●) True
- ( ) False

Question 6

1 / 1 pts

Which of the following are real-world applications of the SVM?

- ( ) churn prediction of telecom customers
- ( ) None of them
- ( ) Image classification
- (●) Both of them

Correct!

Question 7

1 / 1 pts

Which of the following is true about Support Vectors?

- None of the given options
- Changing support vector will change hyperplane
- Both of the given options

Correct!

- The minimum number of support vectors in an SVM is 2

Question 8

1 / 1 pts

Lagrange multiplier is not employed to arrive at a solution for equality constrained optimization problem

- True

Correct!

- False

Quiz Score: 8 out of 8