1.A) SVMs use hyperplanes as decision boundary for classification & B) SVMs uses kernel functions to avoid computational load of converting the whole dataset in to higher dimensional space where the data is linearly separable &. D) SVMs use hard margin classifier

2.

3. C) A very high value of gamma may lead to overfitting

4. B) A Soft Margin Linear classifier

5. B) The margin width will Increase

6. A) Figure A(small margin)

7. C) D3>D2>D1

8.

9. B) The model would consider only the points close to the hyperplane for modeling

10. A) A large number of misclassification would happen(because of high margin)