

AI ASSESSMENT QUESTIONS

PART – A : MCQ

ANS 1: (B) 19/59

ANS 2: (B) FALSE POSITIVE

ANS 3: (B)

ANS 4: (D) $\theta_0=0, \theta_1=0.5$

ANS 5: (C) Statement 1 and Statement 4 are correct

ANS 6: (C) Statement 2 and Statement 4 are correct

ANS 7: (A) Statement 1 and Statement 3 are correct

ANS 8: (D) Random forest

ANS 9: (D) All of the above

ANS 10: (C) Both A and B

ANS 11: (A) Normalize the data -> PCA -> training

ANS 12: (D) All of the above

ANS 13: (C) Both A and B

ANS 14: (D) None of the above

ANS 15: (B) Use multiple random initializations

ANS 16: (C) 1, 2 and 3

ANS 17: (A) Choose k to be the smallest value so that at least 99% of the variance is retained

ANS 18: (C) $\alpha=0.3$ is an effective choice of learning rate

ANS 19: (D) AND

ANS 20: (B) 13/30

ANS 21: (B) Image translation

ANS 22: (B) Median filter

ANS 23: (B) LAB

ANS 24: (C) The process of adding layers of zeros to an image

ANS 25: (A) Zero

PART – B

ANS 1: Information gain leads to **decrease** in Entropy.

ANS 2: A decision tree is a **nonlinear** algorithm for **classification** which works by trying to **decrease** entropy.

ANS 3: Logistic regression is used for **classification**

ANS 4: K-Nearest Neighbours take more time for **testing**, less time for **training**

ANS 5: A table has 3 columns. First column has values ranging from -1 to +1. The second column has values ranging from 1 to 100. The third column has values ranging from 0 to +256. What should be the idle range of output **-1 to 256**