Geetanjali Charitable Trust Sanchalit

GEETANJALI COLLEGE OF COMPUTER SCIENCE & COMMERCE (BBA)

PRELIMINARY EXAM

B.C.A./B.SC.I. T SEM – 6

SUBJECT : Machine Learning With Python **DATE :**

TIME : 2 ½ Hours. **MARKS : 70**

Q – 1 (A) Answer the following: **[04]**

1. Full Form: ML.
2. Full Form: AI.
3. Full Form: DL.
4. List out types of ML.

Q – 1 (B) Answer in brief: (any 1 out of 2) **[02]**

1. Explain Machine Learning.
2. Difference between Supervised & Unsupervised Learning.

Q – 1 (C) Answer in brief: (any 1 out of 2) **[03]**

1. Explain Applications of Machine Learning.
2. Explain types of Machine Learning in Detail.

Q – 1 (D) Answer in brief: (any 1 out of 2) **[05]**

1. Explain How Machines Learn.
2. What ML? Explain Relation of ML, AI and DL.

Q –2 (A) Answer the following: **[04]**

1. Full Form: SVM.
2. What is Scaling?
3. What is Normalization?
4. What is Binarization?

Q – 2 (B) Answer in brief: (any 1 out of 2) **[02]**

1. What is Label Encoding?
2. What is Mean Removal?

Q – 2 (C) Answer in brief: (any 1 out of 2) **[03]**

1. Explain Linear Regression.
2. Explain Simple Classifier.

Q – 2 (D) Answer in brief: (any 1 out of 2) **[05]**

1. Write Code to demonstrate Normalization.
2. Write code to demonstrate Binarization.

Q – 3 (A) Answer the following: **[04]**

1. Full Form: KNN.
2. What is Neural Network?
3. Full Form: SVD.
4. What is Buffer?

Q – 3 (B) Answer in brief: (any 1 out of 2) **[02]**

1. Explain vector quantization.
2. Explain mean shift clustering.

Q – 3 (C) Answer in brief: (any 1 out of 2) **[03]**

1. What is agglomerative clustering.
2. Explain k-means clustering.

Q – 3 (D) Answer in brief: (any 1 out of 2) **[05]**

1. Write code to demonstrate Agglomerative Clustering.
2. Write code to demonstrate K means clustering.

Q –4 (A) Answer the following: **[04]**

1. Full Form: NLP.
2. Describe Information Extraction.
3. What is Language Generation?
4. What is Speech Processing?

Q – 4 (B) Answer in brief: (any 1 out of 2) **[02]**

1. What are the applications of NLP?
2. Difference between ML and NLP.

Q – 4 (C) Answer in brief: (any 1 out of 2) **[03]**

1. Explain stemming data.
2. What is MasterPage? What are its requirements?

Q – 4 (D) Answer in brief: (any 1 out of 2) **[05]**

1. Write code to demonstrate Implementation Noun-Phrase chunking.
2. Write code to demonstrate Implementation of Porter Stemmer.

Q –5 (A) Answer the following: **[04]**

1. Full Form: ROI.
2. What is OpenCV?
3. What is Object Detection?
4. What is Haar cascade?

Q – 5 (B) Answer in brief: (any 1 out of 2) **[02]**

1. Explain: How to detect a face using OpenCV.
2. Explain: How to detect a mouth using OpenCV

Q – 5 (C) Answer in brief: (any 1 out of 2) **[03]**

1. Explain: How to detect eyes using OpenCV.
2. Explain: How to detect pupils using OpenCV.

Q – 5 (D) Answer in brief: (any 1 out of 2) **[05]**

1. Write code to demonstrate Blur Image using OpenCV.
2. Write code to demonstrate Play video using OpenCV.