0033046003

Seat No. _____

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BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) (W.E.F. 2022) BSCIT (2022) Semester - 6 Examination

BSCIT (2022) SEMESTER-6 MARCH-2025

CS – 33: MACHINE LEARNING WITH PYTHON

Time : 2.5Hours] **[Total Marks : 70**

1 (A) Answer the following: 4

1 Full Form: ML.

2 Full Form: AI.

3 Full Form: DL.

4 List out types of ML.

(B) Answer in brief (Any one out of two) 2

1 Explain Machine Learning.

2 Difference between Supervised & Unsupervised Learning.

(C) Answer in detail (Any one out of two) 3

1 Explain Applications of Machine Learning.

2 Explain types of Machine Learning in Detail.

(D) Write a note on (Any one out of two) 5

1 Explain How Machines Learn.

2 What ML? Explain Relation of ML, AI and DL.

2 (A) Answer the following: 4

1 Full Form: SVM.

2 What is Scaling?

3 What is Normalization?

4 What is Binarization?

(B) Answer in brief (Any one out of two) 2

1 What is Label Encoding?

2 What is Mean Removal?

(C) Answer in detail (Any out of two) 3

1 Explain Linear Regression.
2 Explain Simple Classifier.

(D) Write a note on (Any one out of two)
1 Write Code to demonstrate Normalization. 5
2 Write code to demonstrate Binarization.

3 (A) Answer the following:
1 Full Form: KNN. 4
2 What is Neural Network?
3 Full Form: SVD.
4 What is Buffer?

(B) Answer in brief (Any one out of two)
1 Explain vector quantization. 2
2 Explain mean shift clustering.

(C) Answer in detail (Any one out of two)
1 What is agglomerative clustering. 3
2 Explain k-means clustering.

(D) Write a note on (Any one out of two)
1 Write code to demonstrate Agglomerative Clustering. 5
2 Write code to demonstrate K means clustering.

4 (A) Answer the following:
1 Full Form: NLP. 4
2 Describe Information Extraction.
3 What is Language Generation?
4 What is Speech Processing?

(B) Answer in brief (Any one out of two)
1 What are the applications of NLP? 2
2 Difference between ML and NLP.

(C) Answer in detail (Any one out of two)
1 Explain stemming data. 3
2 Explain NLP In Detail.

(D) Write a note on (Any one out of two)
1 Write code to demonstrate Implementation Noun-Phrase chunking. 5

2 Write code to demonstrate Implementation of Porter Stemmer.

5 (A) Answer the following: 4

1 Full Form: ROI.

2 What is OpenCV?

3 What is Object Detection?

4 What is Haar cascade?

(B) Answer In brief (Any one out of two) 2

1 Explain: How to detect a face using OpenCV.

2 Explain: How to detect a mouth using OpenCV.

(C) Answer in detail (Any one out of two) 3

1 Explain: How to detect eyes using OpenCV.

2 Explain: How to detect pupils using OpenCV.

(D) Write a note on (Any one out of two) 5

1 Write code to demonstrate Blur Image using OpenCV.

2 Write code to demonstrate Play video using OpenCV.