

Seat No.

## 0033036003

## BACHELOR OF COMPUTER APPLICATION (W.E.F. 2022) BCA (2022) Semester - 6 Examination

## BCA (2022) SEMESTER-6 MARCH-2025

## CS - 33: MACHINE LEARNING WITH PYTHON

Tir	me : 2.5Hours	[Total Marks: 70
1	(A) Answer the following:	4
	1 Machine Learning is a subset of AI. (True or False)	
	2 AI stands for	
	3 Full Form of DL is	
	List out types of machine learning.	
	(B) Answer in brief (Any one out of two)	2
	1 Define DL.	
	2 Define AI	
	(C) Answer in detail (Any one out of two)	3
	1 Explain applications of machine learning,	
	2 How does machine learning work?	
	(D) Write a note on (Any one out of two)	5
	1 Explain the life cycle of machine learning.	
	2 Explain types of machine learning.	20
2	(A) Answer the following:	4
	1 List out types of SVM.	
	2 Define hyperplane.	
	3 RBF stands for	
	(A) Answer the following:  1 List out types of SVM.  2 Define hyperplane.  3 RBF stands for  4 What is the full form of SVM?	
	(B) Answer in brief (Any one out of two)	2
	1 How confidence measurement work?	
	2 What is predictive modelling?	
	(C) Answer in detail (Any out of two)	3

	2	Explain mean removal.		
	(D)	Write a note on (Any one out of two)		5
	1	Explain Naïve Bayes Classifier with ex	ample.	
		Explain normalization with example.		
	2	Explain normalization with example.		
3	(A)	Answer the following:		4
)	100	What is the full form of VQ?		
	1	PIL stands for		
	2	The state of the s		
	3	List out types of clustering.	must be circular in shape. (True or False)	
	4	It is necessary that the crusters formed in	O CHECKIAI III Shape. (11de of 2 5155)	
			riplication (Control of Control o	
	(B)	Answer in brief (Any one out of two)	<del>5</del> = = = = = = = = = = = = = = = = = = =	2
	1	What is clustering?	about the second se	
	2	What is silhouette score?		
	(C)	Answer in detail (Any one out of two)		3
	1	Explain agglomerative clustering.		
	2	How VQ works?		
			Ž =	5
	6	) Write a note on ( Any one out of two)		-
	1	Explain K-means clustering with advan	rages and disadvantages.	
	2	Explain mean shift clustering in detail.	7	
4	(A)	) Answer the following:		4
	1	In NLP, the full form of POS is		
	2	Which library is to be installed to perfe	orm NLP programming?	
	3	List out chunking techniques.		
	4	What is tokenization?		
	(D)	Answer in brief (Any one out of two)		2
		List out applications of NLP.		
	1 2	What is NLP?		
	4	what is NLP?	S. C.	
	(C	(Any one out of two)		3
	1	Explain applications of text classificat		
	2	Explain common text pre-processing to		
	(D	O) Write a note on (Any one out of two)		5
	1	Explain Lemmatization in detail with	example.	
	1	Andrews and the state of the second of the second state of the sec		

Explain binarization.

- 2 Explain types of stemmers.
- (A) Answer the following:

  1 In OpenCV, CV stands for \_\_\_\_\_

  2 ROI stands for \_\_\_\_\_

  3 What is positive image?

  4 Give the syntax of rectangle() function

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

  1 Explain applications of OpenCV.
  - (C) Answer in detail (Any one out of two)

    1 Write a python script to detect object from an image.
    - 2 Explain any 3 functions of cv2 library.

What is object detection.

- (D) Write a note on (Any one out of two)Explain the steps to detect mouth from an image with example code.
- 2 Write the python script to detect face and eyes from an image.