



BACHELOR OF COMPUTER APPLICATION Examination  
BCA SEMESTER-6 MARCH 2026 ( NEP ) MARCH - 2026  
CS -37 : MACHINE LEARNING WITH PYTHON

Faculty Code : 03

Subject Code : 23SI-BCAP-MA-06-16001

Time : 2 Hours]

[Total Marks : 50

- Q.1 Attempt the following. 3
- (A) (1) Who was the pioneer of machine learning?  
 (2) Supervised learning also known as \_\_\_\_\_.  
 (3) \_\_\_\_\_ occurs when a model learns the training data too well, including noise and outliers.
- Q.1 Attempt any one of the following. 2
- (B) (1) Define Model.  
 (2) Define Deep learning.
- Q.1 Attempt any one of the following. 5
- (C) (1) Write a note on supervised learning.  
 (2) Write a note on reinforcement learning.
- Q.2 Attempt the following. 3
- (A) (1) \_\_\_\_\_ is a technique for converting categorical variables into numerical values. Each unique category value is assigned a unique integer based on alphabetical or numerical ordering.  
 (2) \_\_\_\_\_ is a probability distribution that is balanced (symmetric) about the mean.  
 (3) Define accuracy in ml.
- Q.2 Attempt any one of the following. 2
- (B) (1) What do you need to preprocess data?  
 (2) Explain binarization.
- Q.2 Attempt any one of the following. 5
- (C) (1) Write a note on SVM.  
 (2) Write a note on Naïve bayes classifier.
- Q.3 Attempt the following. 3
- (A) (1) WCSS stands for \_\_\_\_\_.  
 (2) cmap stands for \_\_\_\_\_.  
 (3) HNSW stands for \_\_\_\_\_.

