

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VIII COMPUTER :SUMMER- 2022
SUBJECT : MACHINE LEARNING

Day : Tuesday
Date : 14-06-2022

S-13676-2022

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat diagrams wherever necessary.
 - 4) Use of nonprogrammable calculator is allowed.
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- Q.1 a)** Enlist and explain various applications of Machine Learning. (05)
- b)** Write short note Testing and Learning. (05)
- OR**
- Q.1 a)** What is Machine Learning? Explain with any one example. (05)
- b)** Explain the concept of Machine Intelligence. (05)
- Q.2** Enlist and explain various machine learning techniques. (10)
- OR**
- Q.2** Enlist and explain various machine learning models. (10)
- Q.3 a)** What is Classification? Explain Associative classification in detail. (05)
- b)** What is Back propagation? Explain with example. (05)
- OR**
- Q.3 a)** Explain Decision Tree with advantages and disadvantages. (05)
- b)** Write short note on Support Vector Machine. (05)
- Q.4 a)** What is Regression? Explain Logistic Regression in detail. (05)
- b)** Differentiate between Classification and Regression. (05)
- OR**
- Q.4 a)** What is Linear Regression? Explain its advantages and disadvantages. (05)
- b)** Enlist and explain applications of Supervised Learning. (05)
- Q.5 a)** What is clustering? Explain Hierarchical clustering in detail. (05)
- b)** Write short note on Anomaly Detection. (05)
- OR**
- Q.5 a)** Write short note on Self Organizing Map (SOM) (05)
- b)** Enlist and explain various applications of Unsupervised learning. (05)
- Q.6** Enlist and explain Ensemble methods for increasing accuracy. (10)
- OR**
- Q.6** Write short note on Deep learning and Reinforcement learning. (10)

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