

B. TECH. (COMPUTER SCIENCE & BUSINESS SYSTEMS) (CBCS - 2018 COURSE)

Computer Science & Business Systems

B.Tech. (CSBS) Sem - V :SUMMER : 2023

SUBJECT : MACHINE LEARNING

Day : Tuesday

Time : 10:00 AM-01:00 PM

Date : 16-05-2023

S-20468-2023

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagram **WHEREVER** necessary.
 - 4) Use of non-programmable **CALCULATOR** is allowed.
 - 5) Assume suitable data if necessary.
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Q.1 Correlate relationship between Machine Learning and human being. [10]

OR

Explain at least five applications of machine learning. [10]

Q.2 What is supervised learning? Explain classification in detail. [10]

OR

What is cross validation? Explain in detail. [10]

Q.3 Explain in detail about K-Nearest neighbour classification. [10]

OR

How does Artificial Neural Networks are used to enhance the accuracy in machine learning? [10]

Q.4 What is Hidden Markov Models (HMM)? Consider real time example to explain. [10]

OR

How does part of speech tagging applied in sequence classification? Explain in detail. [10]

Q.5 Explain regression model with suitable example. [10]

OR

How does model evaluation is done in machine learning? Explain in detail. [10]

Q.6 What is K-nearest clustering? Explain its role in machine learning. [10]

OR

Write a short note on following: [10]

- a) DB SCAN
- b) CURE

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