Roll No. .218230020৭

Total No. of Questions : 6]   [Total No. of Printed Pages : 4

EX-217

B.Tech. Vth Semester (New Scheme) CSE

Examination, 2022-23

Machine Learning

Paper - CS-501

Time : 3 Hours]   [Maximum Marks : 60

Note :- Attempt all questions. All questions Carry Equal Marks.

There are Internal Choices between Ques. 2 to Ques. 6.

1. Explain Briefly.   2×5=10

   (i)   ML model

EX–217   (1)   P.T.O.

(ii) Data Parameters

(iii) Tensor Flow

(iv) Tuning Sets

(v) Case Study

Unit-I

2. (a) What are Techniques of Data Augmentation ? Explain.

(b) Explain Hypothesis Function and its testing ?

OR

(a) Define Data Preprocessing and its features ?

(b) Explain Normalized Data Set for Machine Learning ?

Unit-II

3. (a) What are method of RELU ? Explain.

(b) Explain the Unstable Gradient Problem in ML ?

OR

(a) What are Weight and Bias and Loss Function ? Explain.

(b) What do you mean by Auto Encoders and Dropout ?

Unit-III

4. (a) Explain the term Flattening and Stride ?

(b) What are Pooling Layer and Loss Layer ? Explain.

OR

(a) Explain Concepts of Dimension Reductions and its characteristics ?

(b) Define strategies of implementation of CNN ?

Unit-IV

5. (a) Explain what is Long Shot-Term Memory ?

(b) What are Value Iteration and Policy Iteration ? Explain.

(a) Explain the techniques of Beam Search and Width ?

(b) Explain RL-framework and MDP techniques ?

Unit-V

6. (a) What are application of ML ? Explain its advantages.

(b) Explain concepts of NLP Techniques ?

OR

(a) Explain Speech Processing and its analysis ?

(b) What do you mean Image Net Competition ? Explain

with examples.

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