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| **P.V.P Siddhartha Institute of Technology(Autonomous)** | | | | | | | | | | | |
| **Department of Computer Science and Engineering** | | | | | | | | | | | |
| **Course: B.Tech** | | | | **Year: III** | **Semester: II** | **Descriptive: I** | **A.Y:2023-24** | | | | |
| **Subject Code: 20CS3602** | | | | **Subject Name: Machine Learning** | | | **Regulation:PVP20** | | | | |
| **Duration:**  **1 hr 30 min** | | | | **Maximum Marks:15 Marks** | | | **Date:**  **30-01-2024** | | **Session: F.N** | | |
| **Answer all the Questions. Each Question carries 5 Marks 3×5M=15M** | | | | | | | | | | | |
| **Q. No** | | |  | | | | | **Marks** | | **CO** | **Level** |
| **1** | | **a)** | Construct a decision tree for the following example and Classify whether the person gets the Job offer or Not. | | | | | **5** | | **CO1** | **2** |
|  | | | | | | | | | | | |
| **2.** | | **a)** | Identify the differences between Biological Neuron and Artificial Neuron. | | | | | **2** | | **CO2** | **3** |
| **b)** | Solve a given problem using back-propagation algorithm and perform the updated weight of W**35**.(Use sigmoid activation function =1/1+e-x) | | | | | **3** | | **CO2** | **3** |
|  | | | | | | | | | | | |
| **3.** |  | | Apply Naïve Bayes Algorithm and predict if an accident will happen or Not?  {**Weather Condition -Rain, Road Condition =Good, Traffic Condition = Normal, Engine Problem= No, Accident=?}**  https://miro.medium.com/v2/resize:fit:589/1*6Vbud53EZ7OnnANcJ64FBA.png | | | | | **5** | | **CO2** | **3** |