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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** |
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| **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** |