**NCIT College**

**Balkumari, Lalitpur**

Subject: INTS FM: 50 and PM: 25

* What do you mean by Artificial Intelligence? Explain Applications of AI. (6)
* Define the principle of Min-Max Algorithm? What are its limitations? Also Justify how Alpha-Beta Pruning aids in overcoming its limitations? (8)
* Define PEAS for Driverless car. Compare Goal-based and Utility-based agent with its architecture. (8)
* Differentiate between Training and Testing data sets. Explain about Nearest Neighbor Method in Pattern Classification. (8)
* Describe the concept of overfitting in classification. Design a perceptron to implement logical OR function using perceptron training algorithm. (10)
* Write Backpropagation Algorithm. Show Its implication for XOR gate. (10)

**NCIT College**

**Balkumari, Lalitpu**

Subject: INTS FM: 50 and PM: 25

* What do you mean by Artificial Intelligence? Explain Applications of AI. (6)
* Define the principle of Min-Max Algorithm? What are its limitations? Also Justify how Alpha-Beta Pruning aids in overcoming its limitations? (8)
* Define PEAS for Driverless car. Compare Goal-based and Utility-based agent with its architecture. (8)
* Differentiate between Training and Testing data sets. Explain about Nearest Neighbor Method in Pattern Classification. (8)
* Describe the concept of overfitting in classification. Design a perceptron to implement logical OR function using perceptron training algorithm. (10)
* Write Backpropagation Algorithm. Show Its implication for XOR gate. (10)

**NCIT College**

**Balkumari, Lalitpur**

Subject: INTS FM: 50 and PM: 25

* What do you mean by Artificial Intelligence? Explain Applications of AI. (6)
* Define the principle of Min-Max Algorithm? What are its limitations? Also Justify how Alpha-Beta Pruning aids in overcoming its limitations? (8)
* Define PEAS for Driverless car. Compare Goal-based and Utility-based agent with its architecture. (8)
* Differentiate between Training and Testing data sets. Explain about Nearest Neighbor Method in Pattern Classification. (8)
* Describe the concept of overfitting in classification. Design a perceptron to implement logical OR function using perceptron training algorithm. (10)
* Write Backpropagation Algorithm. Show Its implication for XOR gate. (10)