Course : III-B.Tech (R22) II-SEM ,MID-2

**Subject :Machine Learning Duaration : 2hr**

**Date : 07-05-2025 Max.Marks : 30**

**COMMON TO CSE/IT/CSD/CSM/CSC**

**PART-A**

**I. Answer all the below questions each question carry two marks 5\*2=10**

**BTL CO**

1.What is Bagging? 2 3

2 Describe about Unsupervised learning? 2 3

3. What is Evolutionary learning? 2 4

4.What are genetic operators? 2 4

5.Explain about Reinforcement learning? 2 4

**PART-B**

**II. Answer any FOUR questions from the following**  **4\*5=20**

**BTL CO**

6.Explain about Boosting and Bagging? 4 3

7. Describe about K Means algorithm? 4 3

8.Explain about Independent component analysis? 3 4

9. Demonstrate about Genetic algorithm with example? 5 4

10.Illustate about Tracking Methods? 5 4

11. Explain about Bayesian Networks? 4 5

**Mid -II**

**SCHEME OF EVALUATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.NO** | **THEORY** | **MARKS** | **TOTAL** |
| 1 | **Part-A** | 2 | 2 |
| What is Bagging |
| 2 | Describe about Unsupervised learning. | 2 | 2 |
| 3 | What is Evolutionary learning?. | 2 | 2 |
| 4 | What are genetic operators? | 2 | 2 |
| 5 | Explain about Reinforcement learning? | 2 | 2 |
| 6 | **Part-B** |  | 5 |
| Boosting | 3 |
| Bagging | 2 |
| 7 | Describe about K Means algorithm | 3 | 5 |
| Example of k means algorithm | 2 |
| 8 | Explain about Independent component analysis | 5 | 5 |
| 9 | Demonstrate about Genetic algorithm | 3 | 5 |
| Genetic algorithm with example | 2 |
| 10 | Illustate about Tracking Methods | 5 | 5 |
| 11 | Explain about Bayesian Networks |  |  |
| **TOTAL MARKS** | | 40 | 30 |