**SardarVallabhbhai Patel Institute of Technology- Vasad.**

**Practical List**

**Dept.: Information Technology Subject: Artificial Intelligence (2180703)**

**Class: LY -I & II**

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| **Practical No.** | **Practical Name** |
| 1 | Study of PROLOG environment with simple programs. |
| 2 | Learn Backtracking and Unification. Implement Medical diagnosis system with PROLOG. |
| 3 | Learn Different Predicates. And implement revised medical diagnosis system. |
| 4 | Learn Recursion and Implement it with examples. |
| 5 | Learn CUT predicate, Arithmetic predicates and implement with examples. |
| 6 | Study and implementation of compound Objects and dynamic database. |
| 7 | Study and implementation of Lists and strings. |
| 8 | Write a program to implement Tic-tac-toe game problem. |
| 9 | Write a program to implement BFS and DFS. |
| 10 | Write a program to implement Single Player Game (Using Heuristic Function) |
| 11 | Write a program to implement A\* algorithm. |
| 12 | N-Queens problem |
| 13 | 8 puzzle problem |
| 14 | Travelling salesman problem |
| 15 | Convert following Prolog predicates into Semantic Net  cat(tom).  cat(cat1).  mat(mat1).  sat\_on(cat1,mat1).  bird(bird1).  caught(tom,bird1).  like(X,cream) :– cat(X).  mammal(X) :– cat(X).  has(X,fur) :– mammal(X).  animal(X) :– mammal(X).  animal(X) :– bird(X).  owns(john,tom).  is\_coloured(tom,ginger). |
| 16 | Write the Conceptual Dependency for following statements.  *(a)* John gives Mary a book  *(b)* John gave Mary the book yesterday |

**Course coordinator I/C HOD**

**Vaibhavi Patel I.T department,**

**I.T department S.V.I.T, Vasad**

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