

S. B. Roll. No.....

ARTIFICIAL INTELLIGENCE
6th Exam/IT/5795/Nov'24
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION A

Q1. Do as directed.

15x1=15

- a. AI stands for _____.
- b. Partial-order planning is the opposite of total-order planning. (T/F)
- c. IDA* stands for _____
- d. _____ is modified version of 'min-max' algorithm.
- e. Fuzzy logic is used to imitate human reasoning. (T/F)
- f. SMA* stands for _____
- g. Prolog stands for _____
- h. _____ store knowledge in expert system.
- i. BFS stands for _____.
- j. LISP is a type of AI language. (T/F)
- k. CLIPS stands for _____
- l. Weak AI is a type of Artificial intelligence. (T/F)
- m. A* is an uninformed search algorithm. (T/F)
- n. NLP stands for _____
- o. NN stands for _____

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. Explain partial order planning.
- ii. Differentiate between Informed search and uninformed search.
- iii. Explain different steps of problem solving.
- iv. Differentiate between forward chaining and backward chaining.
- v. Explain alpha-beta pruning.
- vi. Differentiate between proposition logic and predicate logic.
- vii. Explain architecture of fuzzy logic system.
- viii. Differentiate between machine learning and deep learning.
- ix. Explain goals of Artificial Intelligence.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Explain applications of artificial intelligence.
- b. Explain architecture of decision theoretic expert system with diagram.
- c. Explain IDA* algorithm with an example.
- d. Explain deep learning algorithms: CNN and RNN.
- e. Write a short note on i) Reinforcement Learning ii) CLIPS

P.S.B.T.E. & I.T.

