

SRINIX COLLEGE OF ENGINEERING, BALASORE

2nd INTERNAL EXAMINATION, MARCH 2021-22

SUBJECT –AI&ML

SEMESTER- 5th

BRANCH-CSE

FULL MARK-100

TIME-2.30HOURS

SECTION A (All questions are compulsory)

2 × 10 = 20

1. What is an artificial intelligence Neural Networks?
2. Mention the difference between statistical AI and Classical AI?
3. Which search method takes less memory?
4. A* algorithm is based on which search method?
5. What is a heuristic function?
6. In 'Artificial Intelligence' where you can use the Bayes rule?
7. What is reinforcement learning?
8. In top-down inductive learning methods how many literals are available? What are they?
9. Name two types of problems used in supervised learning.
10. In speech recognition what kind of signal is used?

SECTION B (Answer Any Eight)

6 × 8 = 48

11. Explain well-defined problems & solution.
12. List various factors which affect the efficiency of a task environment. Write PEAS description for an automated TAXI driver.
13. Write PEAS description for Medical diagnosis system, Satellite image analysis system, Part-picking robot, Refinery controller, Interactive English tutor
14. Explain simple reflex agent.
15. Explain Depth First Search.
16. Explain informed search strategies
17. List various definitions of AI.
18. Differentiate between supervised and un-supervised learning.
19. Explain A* Algorithm.

SECTION C (Answer Any Two)

16 × 2 = 32

20. Define machine learning. Discuss various machine learning strategies in details.
21. Discuss different types of agent programs.
22. Explain various informed search strategies

******* ALL THE BEST *******