

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai — 600 044.

B.C.A. END SEMESTER EXAMINATIONS APRIL-2023

SEMESTER - VI

20UCAET6AI2 - Artificial Intelligence

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. What is an Artificial Intelligence? Explain the history of AI.
2. Describe the characteristics of intelligent agents.
3. Solve the 8-puzzle problem by using a problem-solving approach.
4. Describe an airline travel problem.
5. Explain the algorithm for steepest ascent hill claiming.
6. Relate Propositional logic with First Order Inference.
7. Describe forward chaining with an example.
8. Examine expressiveness of decision tree.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Classify and explain the four basic kinds of agent program.
10. Classify the uniformed search strategies and explain Breadth-first search.
11. Examine A* algorithm with an example.
12. Apply inference in first order logic.
13. Appraise Statistical learning.
