

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.

BCA. - END SEMESTER EXAMINATIONS APRIL - 2024

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. Define the Turing Test approach in AI.
2. Describe Depth First Search algorithm with suitable example.
3. Classify the simple and model based agent using an example.
4. Explain Heuristic search with example.
5. Describe that how the components of agent programs work?
6. Explain simulated annealing with suitable example.
7. Explain the A* search using an example.
8. Determine first order logic in Artificial Intelligence.

Section C

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

9. Describe the task environment in detail.
10. Apply the toy problem for the implementation of Search in AI.
11. Explain in detail Alpha Beta Pruning with example.
12. Apply the hill climbing procedure for finding the following
i) Local Maxima ii) Ridges iii) Plateaux.
13. Examine the backward-chaining algorithm in detail.
