



IV Semester B.C.A./B.C.A. (DS) Degree Examination, June/July - 2026
(SEP Scheme Freshers)

COMPUTER APPLICATIONS

Artificial Intelligence and Applications

Time : 3 Hours

Maximum Marks : 80

Instructions :

Answer All the Sections.

SECTION - A

I. Answer any Ten questions. Each question carries 2 marks. (10×2=20)

1. Define AI.
2. What are intelligent agents?
3. Mention the properties of task environment.
4. What is searching for solutions?
5. Define depth limited search.
6. What is uninformed search or Blind search?
7. What is logic in AI?
8. What is knowledge - based agents in AI?
9. Define forward chaining.
10. What is machine learning?
11. Define classification.
12. Define support vector machine.

SECTION - B

II. Answer any Six questions. Each question carries 5 marks. (6×5=30)

13. Write a short note on AI - past, present and future?
14. Explain PEAS or specifying the task environment.
15. Briefly discuss Depth first search.
16. Explain informed (Heuristic) search strategies.
17. Discuss in detail about propositional model checking.
18. Define logic. Write a note on backward chaining.



19. Explain the concept of decision trees.
20. Write a note on Supervised learning.

SECTION - C

III. Answer any Three questions. Each question carries 10 marks. (3×10=30)

21. Explain any two types of agents in AI.
 22. Write a note on ;
 - a. Uniform cost search. (5)
 - b. A* search. (5)
 23. Explain syntax and semantics of first order logic.
 24. Elaborate Artificial Neural Network with neat diagram along with challenges of designing applications.
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