



DCCA501

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Reg. No.

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V Semester B.C.A. Degree Examination, January/February - 2025

COMPUTER SCIENCE

Artificial Intelligence

(NEP Scheme F+R)

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer All Sections.

SECTION - A

Answer any Four questions. Each question carries Two marks.

(4×2=8)

1. Define AI (Artificial Intelligence).
2. Differentiate between Knowledge and Intelligence.
3. What is Computer Vision?
4. Briefly explain Turing Test.
5. Expand and define ANN.
6. What is Planning?

SECTION - B

Answer any Four questions. Each question carries Five marks.

(4×5=20)

7. Write a note on different types of AI.
8. Briefly explain any five applications of AI.
9. List and explain any five applications of Computer Vision.
10. With a neat diagram explain the architecture of Fuzzy Logic.

[P.T.O.]

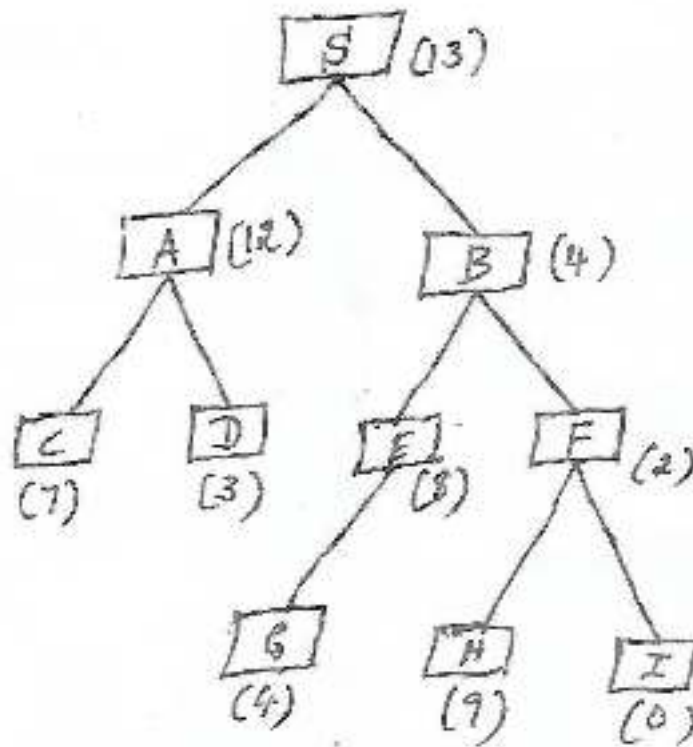
11. Explain the Block World Problem with its action verbs.
12. What is Learning? List different types of Learning. Explain any three briefly.

SECTION - C

Answer any Four questions. Each question carries Eight marks.

(4×8=32)

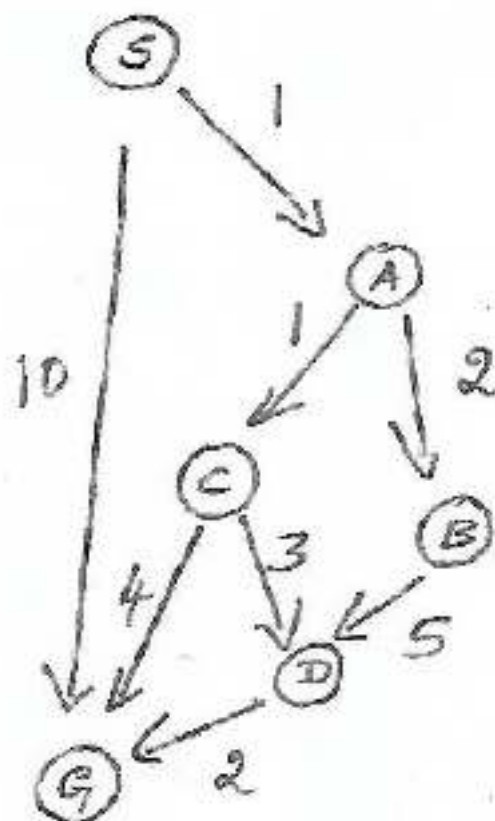
13. a) Write the BFS Algorithm. (4)
- b) Solve the below given problem using BFS Algorithm. (4)



14. List and explain the five different plans of NLP.
15. What is Expert System? With a neat block diagram explain the architecture of Expert System.
16. Explain Machine Learning Life Cycle.
17. What is Robot? Explain any Seven types of Robot.



18. a) Briefly explain different type of Quantifiers used in FOL.
b) Using A* algorithm find the most cost effective path from S to G.



Heuristic Values

S	5
A	3
B	4
C	2
D	6
G	0