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Reg. No.

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8/1/25  
DCCA501

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.]

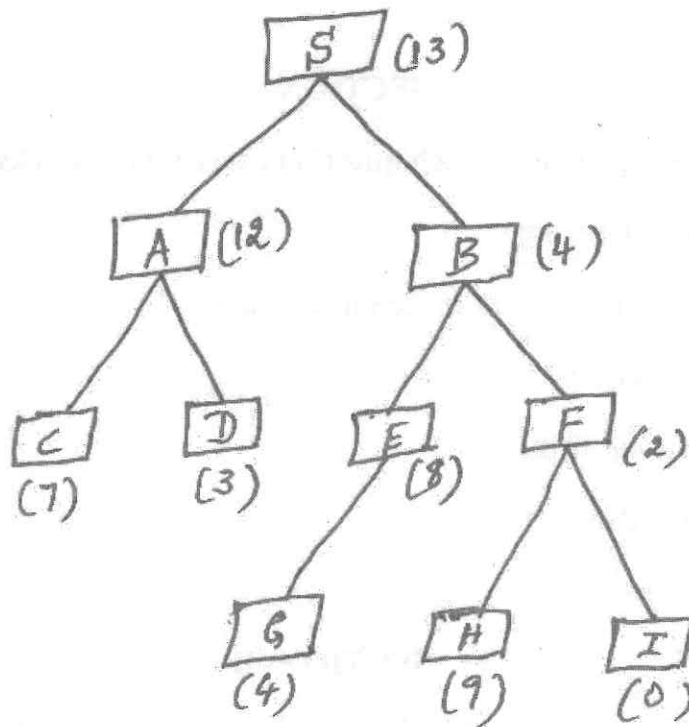


- 11. Explain the Block World Problem with its action verbs.
- 12. What is Learning? List different types of Learning. Explain any three briefly.

**SECTION - C**

**Answer any Four questions. Each question carries Eight marks. (4×8=32)**

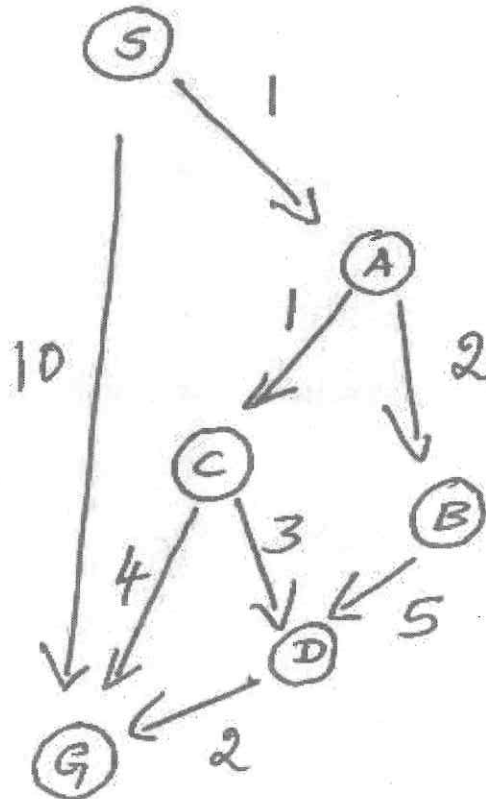
- 13. a) Write the BFS Algorithm. (4)
- b) Solve the below given problem using BSF Algorithm. (4)



- 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

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