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DCCA501

Reg. No.

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V Semester B.C.A Degree Examination, December/January - 2025/26

COMPUTER APPLICATIONS

Artificial Intelligence

(NEP Scheme (F+R))

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer All the sections

P G Library
SRN Adarsh College
Chamarajpet,
Bengaluru-560018

SECTION - A

Answer any Four of the following questions. Each question carries Two marks.

(4×2=8)

1. Define artificial intelligence.
2. What is knowledge in AI?
3. What do you mean by propositional logic?
4. What is planning?
5. What is computer vision?
6. List the key components of a robot.

SECTION - B

Answer any Four of the following questions. Each question carries Five marks.

(4×5=20)

7. Briefly explain any five applications of AI.
8. Describe PEAS in AI environment.
9. Explain all the logical connectives used in PL.
10. Explain forward and backward chaining with its characteristics.
11. What is learning? Explain types of learning.
12. Explain any Four applications of NLP.

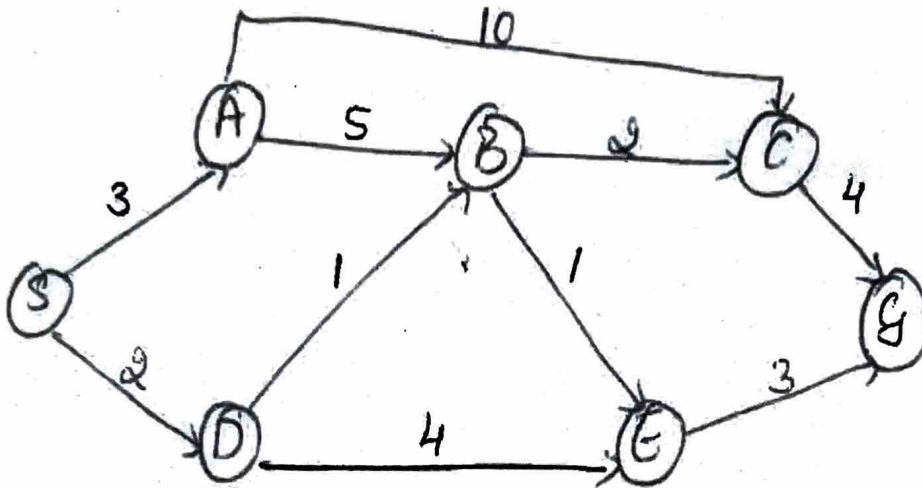
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Answer any Four of the following questions. Each question carries Eight marks.

(4×8=32)

13. Using A* Algorithm find the optimal path for the following graph 'S' is the starting node and 'G' is the goal node. (8)



14. Explain alpha-beta pruning in AI Algorithms. (8)
15. With neat diagram explain wumpus world in artificial intelligence. (8)
16. a) Explain architecture of TMS. (4)
- b) List the applications of TMS. (4)
17. a) Explain phases of image processing. (4)
- b) Describe the architecture of Fuzzy logic. (4)
18. Explain types of Machine learning with example. (8)