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DCCA501

Reg. No.

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V Semester B.C.A. Degree Examination, February/March - 2024

COMPUTER SCIENCE

Artificial Intelligence (Theory)

(NEP Scheme 2021)

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

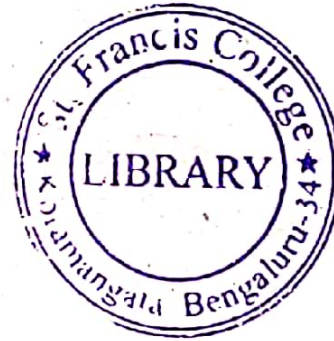
Answer all sections.

PART - A

Answer any **Four** each carries 2 marks.

(4×2=8)

1. Define artificial intelligence.
2. What is machine learning.
3. What is knowledge in AI?
4. Define TMS.
5. Write any two applications of computer vision.
6. What is expert system?



PART - B

Answer any **Four** each carries 5 marks.

(4×5=20)

7. Write an algorithm for BFS.
8. With a neat diagram define the wumpus world AI problem.
9. Explain block world problem with a neat diagram and action words.
10. What is NLP? Explain different types of ambiguity in NLP.
11. Explain different type of ML.
12. Write a note on ANN.

[P.T.O.]

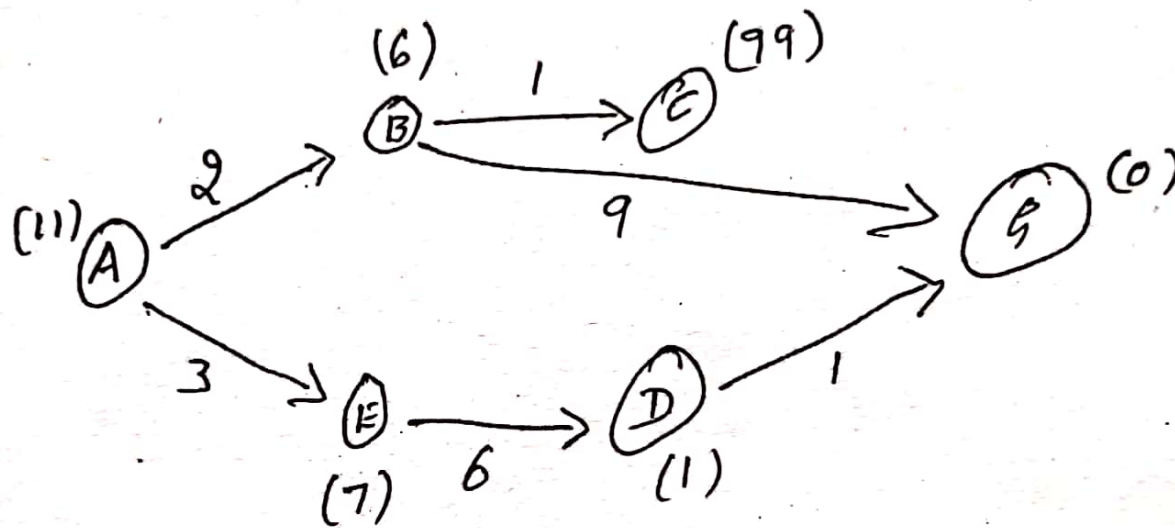


PART - C

Write any **Four** questions. Each carry **8** marks.

(4×8=32)

- 13. List and explain any 7 applications of AI.
- 14. Using A* algorithm find the optimal path for the following graph. 'A' is the starting node and 'G' is the goal node.



- 15. Write a note on predictive logic and first order logic.
- 16. Write a note on :
 - a. Fuzzy logic.
 - b. Types of Robots.
- 17. Briefly explain five phases of NLP.
- 18. Explain the architecture of expert system.