V Semester B.Sc. Examination, January/February 2025
(NEP Scheme) (Freshers/Repeaters)
COMPUTER SCIENCE
Artificial Intelligence

Time : 2½ Hours

Max. Marks : 60

Instruction : *Answer **all** the Parts.*

PART – A

I. Answer **any four** questions. **Each** question carries **two** marks.　　　　(4×2=8)

　1) What is problem solving agent ?

　2) Define Logic.

　3) What is knowledge base system in AI ?

　4) Define robot kinematics.

　5) What is expert system ?

　6) Define Artificial Neural Network.

PART – B

II. Answer **any four** questions. **Each** question carries **five** marks.　　　　(4×5=20)

　7) Differentiate between DFS and BFS.

　8) With a neat diagram, explain agents and its environment.

　9) Explain about truth maintenance systems.

　10) Discuss about blocks world problem.

　11) Explain about semantic analysis.

　12) Write a short note on pragmatic processing.

PART – C

III. Answer **any four** questions. **Each** question carries **eight** marks.   (4×8=32)

13) Define Artificial Intelligence. What are the applications of AI ?

14) Write an algorithm of A* search.

15) Explain proportion logic and predicate logic.

16) Differentiate between first order logic and propositional logic.

17) What are the different types of machine learning ?

18) Write a short note on :

    a) Expert Systems.   **4**

    b) Fuzzy Logic.   **4**

—————————