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B. Tech. (CSE) 6th Semester (G Scheme)
Examination, July-2022

ARTIFICIAL INTELLIGENCE

Paper-PCC-CSE-304-G

Time allowed : 3 hours]

[Maximum marks : 75

Note : Attempt five questions in all, selecting at least one question from each section. Question No. 1 is compulsory.

1. Explain the following questions : 6×2.5=15
- (a) History of AI
 - (b) Ant Colony Optimization
 - (c) Bayesian Reasoning
 - (d) Transformational Analogy
 - (e) Neural Networks
 - (f) Informed Search

Section-A

2. What do you mean by Game Playing : Min.-Max. Algorithm and Alpha-Beta Pruning. Explain in detail. 15
3. (a) Explain A * algorithm. 8

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- (b) What is Hill Climbing ? Explain Simple Hill Climbing. 7

Section-B

4. Describe different Approaches to Knowledge Representation. 15
5. Explain Rule-Base-System with example. 15

Section-C

6. Explain in detail Dempster-Shafer Theory. 15
7. What is Probability Theory in terms of Reasoning under Uncertainty ? Elaborate. 15

Section-D

8. Demonstrate fundamental understanding of various application of AI techniques in Expert systems and Neural Networks. 15
9. Demonstrate a discussion of AI, its current trends, limitations and implications. 15