

Duration: 3 Hrs.

Marks: 100

Notes: 1) Q1 is compulsory.

- 2) Do any 4 from Q2 to Q7
- Q1.a) With an example explain concept of IS-A hierarchy. [10]
b) Define and Compare Symbol and Numbers [10]
- Q2.A) Explain Bayesian network with proper diagram. [10]
b) Explain resolution in predicate logic. [10]
- Q3.a) What is artificial intelligence? Explain different models of intelligence. [10]
b) Explain different approaches to knowledge representation [10]
- Q.4.a) Explain natural language processing with an example. [10]
b) Explain K armed bandit problem. [10]
- Q5. a) Write down the steps for generating fuzzy rules with product space clustering [10]
b) Define and Compare Trees and Graphs with proper Example [10]
- Q6. a) With a Neat diagram explain Knowledge Data Discovery Process. [10]
b) Explain A* and Hill Climbing Algorithm. [10]
- Q7. Write short notes on any 4 [20]
a) Production System characteristics
b) Different Models of reasoning
c) crossover and mutation over schemata
d) Application of Artificial Intelligence
e) Semantic Network
f) Comparison between Rules and principles
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