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TIT-502	1012	Printed Pages: 4
Paper Code & Roll N	o. to be filled in you	r Answer Book
Roll No.		
B. Te	ch. III Year (V	Sem.)
Odd Sei	mester Examina	tion-2015
ARTI	FICIAL INTELLIC	GENCE

Time: 3 Hours]

[Maximum Marks:100

Answer Any Four (4×5=20)

- What is artificial intelligence? Also define artificial technique.
- What about other comparisons between human and computer intelligence? Does AI aim to put the human mind into the computer?
- Why would evolution tend to result in systems that act rationally?
- Explain why problem formulation must follow goal formulation.
- Write a note on the foundations of artificial intelligence.

Answer Any Four (4×5=20)

 What are the different parameters are used to evaluate a search technique.

- Differentiate between supervised and unsupervised learning techniques.
- Define the terms natural intelligence and artificial intelligence.
 How do you differentiate between the two?
- 4. What is natural language processing?
- Define and differentiate between weak and strong AI.

Answer Any Two (2x10=20)

- Show that the depth first search technique is neither complete nor optimal.
- Explain the effect of over-estimation and underestimation on A* algorithm.
- What is Bayesian reasoning? What does a Bayesian network represent? Explain.

Answer Any Two (2×10=20)

- What is machine learning? Differentiate between supervised, unsupervised and reinforcement learning.
- Explain the expectation and maximization (EM) algorithm for finding the maximum likelihood with hidden variables.

3. To which category of clustering schemes does the k-means algorithm belong? What is its major advantage? Which are the factors that influence the computation duration of this algorithm?

Answer Any Two (2×10=20)

- Write short notes on the following:
 - a. Ant colony system
 - b. Knowledge acquisition
- Discuss syntactic and semantic ambiguity? Explain in detail the structure of different intelligent agent.
- Differentiate between forward chaining and backward chaining?