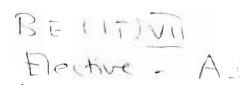
Dec 12



51:2nd half.12-AM(i)

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(3 Hours)

Total Marks: 100

N.B.: (1) Attempt Question No. 1, which is compulsory.

- (2) Attempt any four from remaining questions.
- 1. (a) What is AI? Explain its components.

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(b) What is Rational Agent? Explain Goal based Agent.

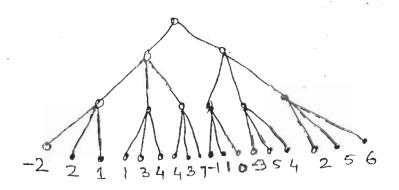
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- 2. (a) What is PEAS descriptor? Explain PEAS descriptor for Taxi Driver Agent.
- 10 10

(b) Compare DFS and BFS with example.

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- 3. (a) What is Hill Climbing Algorithm. Explain its problem and solution in brief.
 - (b) Explain Min-Max and Alpha Beta pruning algorithm with following example: -- 10



4. Consider following statements:-

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- (a) Ravi Likes all kind of food.
- (b) Apple and Chicken are food.
- (c) Anything anyone eats and is not Killed is food.
- (d) Ajay eats peanuts and still alive.
- (e) Rita eats everything that Ajay eats.

Prove that —

Ravi Likes Peanuts using resolution and what food does Rita eat.

5. (a) From the given table find the probability of having "No cavity when toothache is 10 there".

	toothache		~ toothache		
	Catch	~ Catch	Catch	~ Catch	
Cavity	·108	-012	.072	-008	
- Cavity	.016	.064	144	-576	

(b) Explain Planning Algorithm for Spare Tyre Problem.

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(a) Explain Water Jug problem with State Space Search Method. (b) Explain Decesion Tree in brief.

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7. Write short notes on any two of the following:—

- (a) Ontology
 - (b) Agent Communication

(c) Neural Network.