## T.E. / VI / COMP / C SCHEME / DEC 2023 / 18.12.2023

(3 Hours) Total Marks:	80
1) Q.1 is compulsory 2) Attempt any <b>three</b> from remaining <b>five</b> questions	
Q1) Solve any four of the following:	
<ul> <li>b) What do you mean by Total Turing test. Explain.</li> <li>c) Explain Utility based Agent with a block diagram</li> <li>d) Formulate the 8 puzzle problem</li> </ul>	5] 5] 5] 5]
b) What do you understand by A* search? Is it informed or uninformed search - Just	[0]
b) What do you understand by forward chaining and backward chaining. Explain	10]
Q4) a) Explain various methods of knowledge representation.	10]
b) What are local search algorithms? Explain any one in detail.	10]
Q5) a) What is planning in AI? Discuss partial order planning and hierarchical planning in detail	10]
b) What do you understand by Reinforcement learning. Explain in detail.	10]
Q6) Write short notes on <b>any two</b> of the following:	20]
a) Wumpus World Environment	
b) Applications of AI	
c) Natural Language Processing	

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