

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- MARCH-2023

COURSE CODE (CREDITS): L-22M1WCI231

MAX. MARKS: 15

COURSE NAME: Knowledge based AI: Cognitive Systems

COURSE INSTRUCTORS: Mr. Nishant Sharma

MAX. TIME: 1 Hour

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*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

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Q1. (A) What do we understand by term "Knowledge based AI"? What limitations are faced by an AI agent in present scenario?

(B). Describe three core components of Knowledge based AI. [3 + 2 marks] [CO-1]

Q2. Explain about 4 schools of thoughts in artificial intelligence. Provide an answer with suitable examples for each. [3 marks] [CO-1]

Q3. Explain in detail about cognitive system architecture with proper illustrations.

[3 marks] [CO-1]

Q4. What are semantic networks? Also, explain characteristics of a good knowledge representation. Construct a semantic network to describe relationship among nodes based on raven's test of intelligence. [1 +1 + 2 marks] [CO-2]