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EMT041

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B. Tech.

(SEM.VII) THEORY EXAMINATION 2011-12 ARTIFICIAL INTELLIGENCE IN MANUFACTURING

Time : 3 Hours

Total Marks : 100

Note :- Answer all the questions.

- 1. Answer any two from the following : (10×2=20)
 - (a) Explain the term Artificial Intelligence and list the application areas of AI.
 - (b) With a block diagram explain the components of Expert System.
 - (c) Discuss the attributes of intelligent behaviour.
- 2. Answer any two from the following : $(10 \times 2=20)$
 - (a) Define Expert System and explain the structure and characteristics of Expert System.
 - (b) With an example explain the Goal-Driven-Reasoning in Expert System.
 - (c) Explain the different methods of acquiring the knowledge.

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- 3. Answer any two from the following : (10×2=20)
 - (a) What do you mean by Knowledge Representation? Explain the different methods of representation.
 - (b) With a block diagram explain the components of Expert System Shell.
 - (c) Explain the role of expert system in computer aided Process Planning.
- 4. Answer any two from the following: $(10 \times 2 = 20)$
 - (a) What are the factors to be considered in Process Control? Explain.
 - (b) Explain the method of using Expert System in Management Information System.
 - (c) Explain an Expert System for generating process plans.

5. Write short notes on any four of the following: $(5 \times 4 = 20)$

- (a) Working memory
- (a) Define Explanations and explanations (b) and (c)
 - (c) Fault diagnosis
- (d) Expert system languages a starter of the data (d)

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(e) Failure analysis.

c) Exploit the different methods of activity fire formuladed

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