Total No. of Questions:81

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Roll No MMCM - 301(B).

M.E./M.Tech., III Semester

Examination, June 2016

Intelligent Manufacturing

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

- What are the different search techniques? Explain best first search techniques with a suitable example?
 - Explain in brief Application of knowledge based systems in design and manufacturing.
- Explain the model of Artificial neuron. a)
 - Compare the structure and functioning of biological brain and neuron.
- Explain the training method using back propagation algorithm with a suitable example.
 - What are the different applications of neural network in design manufacturing and management?
- Explain the concept and characteristics of expert system.

What are the different areas of application and domain where expert system is applicable?

- Explain different properties of fuzzy sets and explain with a suitable example.
 - Discuss about the selection of membership function and also explain fuzzification.
- Explain depth first and Breadth first search technique with suitable example.
 - What are different transfers function in a neural network?
- Explain the architecture and energy functions of help field nets.
 - Write a short note on development of Expert system technology.
- Explain Demorgan's low with an example.
 - Discuss about the application of fuzzy logic in manufacturing and design system.

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