M. TECH.-III (MECHANICAL CAD/CAM) (CBCS – 2015 COURSE) : SUMMER - 2018

SUBJECT : ELECTIVE – 1 : MANUFACTURING INFORMATION SYSTEMS

Day : **Tuesday** **S-2018-3115** Time : **11.00 AM TO 02.00 PM**
Date : **29/05/2018** Max. Marks : 60

N. B. :

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in the **SEPARATE** answer books.
4) Assume suitable data, if necessary.

SECTION - I

Q. 1 What is fuzzy logic? State its characteristics. **(10)**

OR

What is Neural Network? State its characteristics. **(10)**

Q. 2 Write a note on conflict resolution. **(10)**

OR

Describe black board mechanism in detail. **(10)**

Q. 3 What is expert system shell? Describe its features. **(10)**

OR

What is PROLOG? What is LISP? **(10)**

SECTION - II

Q. 4 Explain the importance of factory layout. **(10)**

OR

Write a brief note on product life cycle. **(10)**

Q. 5 Describe the application of black board architecture. **(10)**

OR

Describe the knowledge based approach for design. **(10)**

Q. 6 What are the different fuzzy logic controllers? **(10)**

OR

What are the principles of fuzzy logic? **(10)**

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