

**M. Tech.-III (Mechanical CAD/CAM) (CBCS – 2015 Course) :**  
**SUMMER - 2019**  
**SUBJECT: ELECTIVE –I: b) MANUFACTURING INFORMATION SYSTEMS**

Day: Friday  
Date: 17/05/2019

**S-2019-3518**

Time: 11.00 AM TO 02.00 PM  
Max. Marks: 60

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1** Explain what a knowledge based system is. **(10)**

**OR**

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

**Q.2** What are forward and backward chaining strategies? **(10)**

**OR**

**Q.2** What is blackboard model? **(10)**

**Q.3** What is PROLOG? **(10)**

**OR**

**Q.3** Explain implementation issues with respect to knowledge acquisition. **(10)**

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

**OR**

**Q.4** How is a diagnostic maintenance carried out? **(10)**

**Q.5** What is black board architecture? **(10)**

**OR**

**Q.5** Explain knowledge based approaches for engineering design. **(10)**

**Q.6** What are the advantages of AI? **(10)**

**OR**

**Q.6** How does AI affect traditional MIS systems? **(10)**

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