

Roll No. ....

**22232**

**M. Tech 2nd Sem. Mechanical Engg.  
(Machine Design)  
Examination – May, 2018**

**DESIGN OF MECHANISMS**

**Paper : M-804-A**

***Time : Three Hours ] [ Maximum Marks : 100***

***Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.***

***Note : All questions carry equal marks attempt any five questions.***

- 1. Discuss and explain the closed and open chain systems with suitable example. 20**
- 2. What is synthesis of mechanisms. Explain with neat sketches if any. 20**
- 3. Describe the need of Alternative design solutions in design of mechanism. 20**

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4. Explain how coding evaluation and selection of optimum mechanism is done along with analysis. 20
  5. Discuss the structural and mechanical error in detail. How it is important in the design of mechanism. 20
  6. Explain the software used in the design and analysis of mechanism. 20
  7. Explain the use of Manipulators. How the manipulators can be classified and explain the different types of manipulators. 20
  8. Write short notes on the following : 20
    - (a) Degree of freedom
    - (b) Design of mechanisms
    - (c) Forward kinematics
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