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**M. Tech. 2nd Semester (Mechanical Engg.)
(Machine Design) Examination, May-2015**

PRINCIPLES OF MACHINE DESIGN

Paper-M-806-A

Time allowed : 3 hours]

[Maximum marks : 100

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

1. Discuss the various steps followed by the designer in designing product and what is the role of designer in designing the product. Explain. 20
2. Discuss the role of creativity as means to synthesis of alternatives. Explain. 20
3. Explain the product life cycle from production to consumption and disposal. 20
4. Discuss the decision making and resource conversion concept in detail. 20
5. Discuss the iconic, analog and symbolic models of design. 20
6. Explain the steps in Embodiment Design and discuss the rules and principles of Embodiment Design. 20

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7. Discuss the steps followed in preparing and presenting the report. What is the quality of good report ? 20
8. Write short notes on following : 20
- (a) Feasibility study
 - (b) Characteristics of a good model
 - (c) Product life cycle.