

Roll No.

22233

M. E./M. Tech. 2nd Semester (ME-MD)

Examination – June, 2013

PRINCIPLES OF MACHINE DESIGN

Paper : M-806A

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 : Attempt any *five* questions out of *eight* questions.
Each question carries equal marks.

1. What is the Design Process ? Describe the No. of steps use in Design Process. 20
2. (a) What is the role of decision making in Engineering Design ? 10
(b) What is the preliminary and detail design of a Product Design ? 10
3. Describe with examples the design specification and activities used in design. 20

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4. (a) What is the importance of design records in the Designing of a product ? 10
- (b) Classified the different variety of needs in Designing of a product. 10
5. What is the role of design specification and activities in product planning ? 20
6. What is the meaning of Conceptual Design ? What are the characteristics of a good model ? 20
7. Describe the different steps of mechanical connections used in Embodiment Design of a product. 20
8. (a) What are the characteristics of Modular Products ? 10
- (b) What is the meaning of Robust Design in the Embodiment Design ? 10