

Roll No.

23124

**M. Tech. 3rd Semester (M.E.)
(Manufacturing & Automation)
Examination – January, 2016**

MECHANICAL DESIGN - II

Paper : 951

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 : Students will be required to attempt only any *five* questions. All questions carry equal marks.

1. Describe Cost engineering; Cost estimating and Project controls; Integrated cost price calculation. 20
2. Describe the methodology of activity based costing focuses on cost allocation in operational management. 20
3. Purposes of Packaging and Packaging labels. Describe also the Packaging types. 20

4. Difference between a Prototype and a Product design and also describe the basic prototype categories. 20
 5. Introduction of finite element method and what is failure modes and effect analysis. Discuss also the benefits of failure modes and effect analysis. 20
 6. Describe Geometric Dimensioning and Tolerancing (GD & T) and tolerance design. 20
 7. Describe the value engineering considerations in design and also discuss the role of processing in design. 20
 8. What is root cause analysis; and also describe the term "Rapid Prototyping." 20
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