

Roll No

MMIP-201
M.E./M.Tech., II Semester
Examination, May 2018
Product Design And Lifecycle Management
Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.
iii) Draw neat diagram wherever required.

1. a) What are the various types of models used in product design and explain in detail.
b) Explain design through creative routs.
2. a) Explain the difference between oral and visual presentation.
b) Explain adaptive and variant design.
3. Explain robust design using Taguchi method with example.
4. a) Explain intellectual property rights process in India.
b) Explain about copy right.
5. a) Explain evaluation of product life cycle management and its benefits.
b) Explain about design for manufacturing and its components.

6. a) What is Six sigma and explain its principles?
b) Explain the role of aesthetics in a design.
7. a) What is Life Cycle Assessment and discuss various methods of LCA?
b) Explain steps of LCA.
8. Write short notes on:
 - a) Concurrent engineering
 - b) Patents
 - c) Components of DFX
 - d) Application of simulation software for design for quality
