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[Total No. of Printed Pages :2

Roll No

MMIP/MMIE/MMPD-201 M.E./M.Tech., II Semester

Examination, December 2016

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 diagrams wherever required.
- Write and explain the various types of method used in product design.
- 2. Explain in brief:

14

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- i) Design through creative routes
- ii) Adaptive and variant design
- What do you understand by PLM? Explain various types of method for PLM and its benefits.
- Define design for manufacturing. Explain DFM is performed throughout the development process and also give over view on DFM processes.
- Explain Robust design using Taguchi's method.

14

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6. Explain in brief:

14

- i) Standardization
- ii) Simplification, and
- iii) Value analysis-scope techniques in product development
- What is Six Sigma? Explain basic steps involved in the application of Six Sigma.
- 8. Write short note on:

14

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- a) Design for environment
- b) Life cycle assessment method and their impact categories
- c) Application of simulation software for design for quality

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