

Roll No

ME-112

B.E. I & II Semester

Examination, June 2017

Choice Based Credit System (CBCS)

Concepts in Engineering Design

Time : Three Hours

Maximum Marks : 60

- Note:* i) Attempt any five questions.
ii) All questions carry equal marks.

1. What is meant by Engineering design? What are the various ways to think about design?
2. What are the various phases of the life cycle, and what are important design considerations to fulfill requirements of product life cycle design?
3. Explain Morphology of design.
4. What are the different activities performed during planning for manufacturing phase? Explain in detail.
5. What are the basic quality dimensions used as a guide for completeness of customer requirement in the product development process?
6. Explain identification of customer's need and how to understand customer needs and expectations.

7. Describe the steps involved in concept generation method with a flow chart. <http://www.rgpvonline.com>
8. Write a short notes on:
 - a) Creativity and synthesis
 - b) Role of aesthetic and human factors in design
