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Roll No

ME-112-CBCS

B.E. I & II Semester

Examination, June 2020

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. Describe the steps involved in concept generation method with a flow chart.
2. What are the basic quality dimensions used as a guide for completeness of customer requirement in the product development process?
3. What do you mean by case study? Explain industrial design with the help of a case study.
4. Discuss various ways to think about designing.
5. Draw and discuss phases of Product Design Cycle (PDC).
6.
 - a) Discuss various performance requirements design considerations.
 - b) Discuss the role of Aesthetics in design.

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7. a) Distinguish the design methods with scientific methods.
- b) Describe total life cycle of a product. How products can achieve its performance requirements?

OR

Discuss the following :

- a) Rapid prototyping
 - b) Challenges of product development
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8. Write short notes on followings (Any two):
 - a) Bullock Cart
 - b) Safety and social needs
 - c) Concept generation
 - d) Evolution in transportation
 - e) ISI standards
