

BE sem VII | Auto | CBCS | 2nd half 2018

3 Hours

10/12/2018
(80 Marks)

- N.B.:
- (1) All questions carry equal marks.
 - (2) Question No.1 Compulsory.
 - (3) Attempt any three from remaining five questions.
 - (3) Figures to the right indicate full marks.
 - (4) Draw neat sketches wherever necessary.

- Q1. Write short notes on the following.
- (a) Innovative thinking (05)
 - (b) Design for environment (05)
 - (c) Concept selection (05)
 - (d) Design of Experiments (DOE) (05)
- Q2.(a) Explain in detail industrial design process. (10)
- (b) Explain the steps in concept testing. (10)
- Q3.(a) Explain the role of concurrent engineering in product design and development (10)
- (b) Explain the concept of product architecture with examples. (10)
- Q4.(a) Differentiate between value engineering and value analysis. (10)
- (b) Describe the various elements of product costing. (10)
- Q5.(a) Explain quality function deployment technique. (10)
- (b) Explain psychological and physiological considerations in product design. (10)
- Q6.(a) Classify rapid prototyping techniques. Explain any one rapid prototyping technique. (10)
- (b) Explain how product specifications are established during product development process. (10)
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