

**B. Tech. Sem - VIII (Mechanical Engg.) (2014 COURSE) (CBCS) :
SUMMER - 2019**

SUBJECT: INDUSTRIAL PRODUCT DESIGN

Day: Saturday
Date: 25/05/2019

S-2019-2917

Time: 02.30 PM TO 05.30 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q.1 Explain characteristics of successful product development. (10)

OR

Q.1 Explain with suitable examples cost, quality and profit at different stages of product life cycle. (10)

Q.2 Explain different design strategies in designing product. (10)

OR

Q.2 Explain with suitable example morphological chart method in designing product also specify its limitations. (10)

Q.3 What is concept generation? Explain five step concept generation method. (10)

OR

Q.3 Explain with suitable example the process of concept screening and testing. (10)

Q.4 Define Industrial Design. Explain with suitable examples the detail procedure of Industrial design for any automobile components. (10)

OR

Q.4 Explain the legal issues to be considered for industrial product design. (10)

Q.5 Explain what guidelines are given under ISO14000 system with reference to Industrial product design. (10)

OR

Q.5 Explain the ergonomically parameters/ factors which are to be considered while designing industrial product with reference to health. Justify with suitable example. (10)

Q.6 What is Design for Environment (DFE)? Explain in detail the procedure of DFE. (10)

OR

Q.6 Explain with suitable example how Design for Manufacturing and Assembly (DFMA) helps in optimizing Product Quality. (10)

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