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Total No. of Questions : 09

B.Tech.(ME) (E-I 2012 Onwards) (Sem.-6)
PRODUCT DESIGN AND DEVELOPMENT
Subject Code : DE/ME-3.0
M.Code : 71262

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Answer briefly :

- a) Describe 'color as an element of design'.
- b) Differentiate between design by evolution and design by innovation.
- c) Discuss characteristics of forms in design.
- d) What is the role of ergonomics in product design?
- e) Describe interrelation of colors.
- f) What do you mean by 'Product Design'?
- g) What are characteristics of successful product development?
- h) Differentiate between temporary and permanent joints.
- i) Discuss significance of forms in design.
- j) Briefly describe product promotion.

SECTION-B

2. What are basic elements of Visual design? Explain.
3. What do you mean by 'product graphics'? Describe graphics of display and Control panels.
4. What are various standard fastening and joining details in different materials? Explain.
5. What is the role of designer in product development?
6. Describe productivity and fabrication in pressed component design.

SECTION-C

7. Describe :
 - a) Size
 - b) Shape
 - c) Mass
 - d) Unity
 - e) Variety as elements of visual design
8. What are essential features of Product Design? Differentiate between design by evolution and design by innovation.
9. Describe color as an element of design, its interrelations, traditions and clarification dynamics.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.