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B.Tech.(ME) (2011 Onwards E-II) (Sem.-7,8) PRODUCT DESIGN & DEVELOPMENT

Subject Code: DE/PE-3.0 Paper ID: [A3084]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 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

Q1 Answer briefly:

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



SECTION-B

- Q2 Discuss different elementary forms, their characteristics and significance in design.
- Q3 Describe 'From transition'. Explain 'form' in relation to 'ergonomics', 'material and manufacturing processes'.
- Q4 What do you mean by 'Visual Communication aspects of product graphics'? Describe 'basic principles of graphic design'.
- Q5 Explain in detail various producibility requirements for plastic products.
- Q6 What do you understand from 'Psychological use of color form and material'?

SECTION-C

- Q7 What are various manufacturing and economic aspects of product development? How it plays a part in product promotion?
- Q8 What role does a designer play in product development? Explain aesthetics and ergonomics with reference to product design and development.
- Q9 Explain manufacturing and economic aspects of product development. What is Functional Design Practice?

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