Roll No.							Total No. of Pages: 0

Total No. of Questions: 08

M.Tech. (PE) (Sem. - 3)

PRODUCT DESIGN & DEVELOPMENT

Subject Code: PE-524 M Code: 39022

Date of Examination: 14-12-2022

Time: 3 Hrs. Max. Marks: 100

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. a) What do you understand by term financial feasibility and economic worthwhileness? How different are they from each other? How much important are these for good product design?
 - b) What is the importance of product design in the industry?
- 2. a) Discuss in detail the main ergonomic factors considered for good product design.
 - b) What is the importance of various elements and concepts of visual design?
- 3. a) How a color wheel helps in product designing. Explain with the help of examples.
 - b) What is the methodology followed in product design. Explain with the help of an example.
- 4. Explain in detail the different levels of packaging. What are the important characteristics which should be considered while selecting the packaging materials? Explain with the help on an example.
- 5. What is value? What are its different types? What are the various steps of value analysis? How value of a product is measured?
- 6. a) What is creativity? How does design by creative routes differ from Engineering design?
 - b) Explain Functional Analysis System Technique (FAST) diagrams. Illustrate with an example.
- 7. a) What is the role of product graphics in product design?
 - b) List out and explain briefly some modern approaches to product design.
- 8. Write short notes on:
 - a) Industrial Design
 - b) Advantages of Value engineering
 - c) Packaging Strategies
 - d) Value control

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

M-39022 (S2)-260