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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Ind. Engg. & Mgt. (Spl. in TQM)) PT (Sem.-6)
PRODUCT PLANNING, DESIGN & DEVELOPMENT

Subject Code : IEM-601

M.Code : 70997

Time : 3 Hrs.

Max. Marks : 40

INSTRUCTIONS TO CANDIDATES :

1. Attempt All EIGHT Questions from SECTION-A carrying TWO marks each.
2. Attempt any SIX questions out of EIGHT from SECTION-B carrying FOUR marks each.

SECTION-A**1. Answer briefly :**

- a. What do you mean by designing for basic functional requirements?
- b. Explain the concept of slim design of product.
- c. Discuss various design guidelines for Manual Assembly.
- d. Explain the basic procedure for performing FMEA.
- e. Give differences between patent and copyright.
- f. Discuss the concept of reverse Engineering.
- g. Discuss various factors to be considered for a design to emit less noise.
- h. Discuss minimum material wastage concept of product development.

SECTION-B

2. Discuss the design concept to Emit less carbon and nitrogen oxides in product development.
3. Discuss the basic guidelines for design for Environment concept.

4. Discuss in brief about Intellectual property rights of Industrial Design.
5. Discuss in brief share.
6. Discuss the advantages of reverse Engineering and discuss its methodologies.
7. Discuss in brief DFX and give its applications.
8. Write a short note on Rapid Prototyping.
9. Discuss the role of appearance and aesthetics in design considerations of the product.

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