

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E –IIst SEMESTER–EXAMINATION – JULY- 2012

Subject code: 1722803

Date: 10/07/2012

Subject Name: Product Design for Manufacturing

Time: 10:30 am – 13:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Write types of plastics and its properties. **07**
(b) Give overview of three stages of product design. **07**

- Q.2** (a) Explain how to evaluating part configuration for manufacturability. **07**
(b) Explain how to evaluating parametric design for manufacturability. **07**

OR

- (b) Write down comparison between polymers and ceramics. **07**

- Q.3** (a) Write down recent development in casting and machining. **07**
(b) Write down recent development in forming and finishing. **07**

OR

- Q.3** (a) Write down types of castings and explain any one. **07**
(b) Explain Ergonomics and automated systems. **07**

- Q.4** (a) Write the anthropomorphic data and its application in ergonomic design. **07**
(b) Explain product design for high-speed automatic assembly. **07**

OR

- Q.4** (a) Write down comparison between metal casting and forming. **07**
Q.4 (b) Write the limitations of anthropomorphic data. **07**

- Q.5** (a) Write the aesthetic concept of unity and its purpose. **07**
(b) Write aesthetic concepts style and its environment. **07**

OR

- Q.5** (a) Explain selection of plastics for specific applications. **07**
(b) Write the product design for manual assembly . **07**
