

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII • EXAMINATION – WINTER 2013

Subject Code: 171904**Date: 28-11-2013****Subject Name: Product Design and Value Engineering****Time: 10:30 TO 01:00****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) Discuss duration and cost of product development **07**
(b) Discuss generic product development process **07**

- Q.2** (a) Discuss steps involved in product planning process **07**
(b) Discuss how the customer's needs are interpreted during product development process **07**

OR

- (b) How the final specification of product are being achieved. **07**
Elaborate steps involved.

- Q.3** (a) Discuss various design for rigidity and stiffness **07**
(b) What is meant by design for production? Discuss with the help of illustration **07**

OR

- Q.3** (a) What is meant by worth of product? How it affect value of the product? **07**
(b) Discuss value engineering job plan. Elaborate steps involved in brief. **07**

- Q.4** (a) What is meant by value engineering methodology? Give application of it. **07**
(b) Discuss value engineering training plan. **07**

OR

- Q.4** (a) What is FAST diagram? Discuss points to be considered for construction of FAST diagram. **07**
(b) Discuss value engineering team structure **07**

- Q.5** (a) Discuss characteristics of successful product development process **07**
(b) Discuss AMF development process **07**

OR

- Q.5** (a) Discuss AMF organization **07**
(b) Discuss generic product development process **07**
