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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER- VIII (New) EXAMINATION - WINTER 2019** A101013

**(b)** 

(c)

(a)

**(b)** 

(c)

(a)

**(b)** 

(c)

(a)

**(b)** 

(c)

two.

example

'Verb' and 'Noun'

Explain the life cycle costs.

**0.4** 

**Q.5** 

Q.5

/11/2019

04

07

03

04

07

03

04

07

03

04

07

Subject Code: 2181913 Date:		21/11/2019	
Subject Name: Product Design And Value Engineering Time: 02:30 PM TO 05:00 PMTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
			MARKS
Q.1	(a) (b)	List different types of Design and briefly discuss Engineering Design. Explain different types of organization structure used in produc development organizations.	03 t 04
	(c)	Describe generic product development process in detail.	07
Q.2	(a) (b)	What is the importance of product specifications? What are the challenges of product development?	03 04
	(c) (c)	Explain difference phases of industrial design process. <b>OR</b>	07
	(c)	Explain Concept development- The Front end process.	07
Q.3	<b>(a)</b>	What AMF development Process?	03
	<b>(b)</b>	Define: Product life cycle.	04
	(c)	Explain Gozinto chart with the help of example.	07
0.0			
Q.3	(a)	Discuss 'Design for Maintainability' with suitable example.	03
	$(\mathbf{b})$	Explain Rigidity and Creativity	04
0.4	(c) (a)	Explain steps in the Product planning process. Define: (1) Economic Value (2) Social Value (3) Religious Value	07 03
Q.4	(a)	Define. (1) Leonomie value (2) Social value (3) Rengious value	0.5

Explain how customer need, can be converted into specification of a

Explain the meaning of Design for manufacture. Support your answer

OR Discuss Articulated-Use Method for conducting interviews with an

What are the steps involved in Initiating Value Engineering Programme?

Define value engineering and express the function of any four products in

OR Explain the process of selection of project for Value Engineering studies

List different evaluation methods for material selection and describe any

Explain how to determine and evaluate value with suitable example.

\*\*\*\*\*

Discuss: (1) Contractual training (2) Informal training

What is FAST diagram? Explain with suitable example.

product with the help of example

with six different examples.