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GUJARAT TECHNOLOGICAL UNIVERSITY

GUJAKAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–VI (NEW) - EXAMINATION – SUMMER 2018				
Subject Code:2161502 Date:01/05/201				
•		ne:Product Development & Value Engineering	10	
Time:10:30 AM to 01:00 PM Total Marks: 70				
Instructions:				
		npt all questions.		
2.		ike suitable assumptions wherever necessary.		
3.		gures to the right indicate full marks.		
Q.1	(a)	What is product design?	03	
	(b)	Discuss good product design characteristics.	04	
	(c)	Explain product design process.	07	
Q.2	(a)	What id product development?	03	
	(b)	Give product classification with example.	04	
	(c)	How will you select material for ant product? Explain. OR	07	
	(c)	Explain role of market research in product design.	07	
Q.3	(a)	What is process design?	03	
	(b)	Write note: new materials in product design	04	
	(c)	Discuss principles of ergonomics in product design process.	07	
		OR		
Q.3	(a)	What is feasibility study?	03	
	(b)	Write note: standardization in product design.	04	
	(c)	What are objectives of human engineering?	07	
Q.4	(a)	What is value engineering?	03	
	(b)	Write note: process selection criteria	04	
	(c)	Discuss importance of value engineering in industry.	07	
Q.4	(a)	How VE is cost reduction technique?	03	
•		Write note: role of creativity in VE.	04	
	(c)	Discuss various phases of VE.	07	
Q.5	(a)	What are the limitations of VE?	03	
	(b)	What is VE job plan? Explain.	04	
	(c)	Explain various values used in VE with examples. OR	07	
Q.5	(a)	Why product design and VE work simultaneously?	03	
	(b)	Write note: FAST diagram.	04	
	(c)	Explain primary and secondary functions of (1) cell phone, (2) water cooler in VE term.	07	