Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY M.Tech. Winter 2018 - 19 Examination

Semester: 1	Date: 12/12/2018	
Subject Code: 203217131	Time: 10:30 am to 1	1:00 pm
Subject Name: Design for Manufacturing and Assembly	Total Marks: 60	•
Instructions:		
1. All questions are compulsory.		
2. Figures to the right indicate full marks.		
3. Make suitable assumptions wherever necessary.		
4. Start new question on new page.		
Q.1 A) Discuss importance of morphological chart in design with functional decarry product as a case study.	omposition of	(05)
B) Distinguish between modular and integral product architecture.		(05)
C) Define Factor of Safety? List various factors affecting for the selection of	Factor of Safety	(05)
Q.2 Answer the following questions. (Attempt any three) (Each five mark)	r detor of Surety.	(15)
A) Explain Product Life Cycle.		(13)
B) Discuss various casting defects with figure.		
C) Classify polymers and explain various molecular structures of polymer i	naterials	
D) What is shape factor? How does shape factor affect to enhance mechanic material?		
Q.3 A) Discuss about "Design recommendations for Casting".		(07)
B) Discuss about "Design for Bulk Deformation Processes".		(08)
OR		
B) Discuss about Design for Machining.		(08)
Q.4 A) Define Reliability and discuss Design for Reliability.		(07)
OR		
A) Discuss design recommendations for brazing and soldering.		(07)
B) Explain welding distortion and give guidelines to minimize the distortion		(08)
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