

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2182308****Date:09/05/2019****Subject Name:Plastic Product Design****Time:10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

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

		MARKS
Q.1	(a) Define : Short term properties ; Bosses, Ribs	03
	(b) Describe factors to be considered while designing the product.	04
	(c) List various steps followed in preliminary product design.	07
Q.2	(a) Explain plastic product design consideration related to Taper or Draft.	03
	(b) Importance of material selection criteria while designing the product.Discuss	04
	(c) List out various contents included in an ideal check list of plastic product design.	07
OR		
	(c) Discuss the procedure for designing over head water storage tank(capacity 15,000 lit).	07
Q.3	(a) Explain plastic product design consideration related to Tolerance.	03
	(b) Importance of long-term properties in plastic product design.	04
	(c) Explain plastic product design consideration related to Fillets and Radii.	07
OR		
Q.3	(a) Explain plastic product design consideration related to Ribs.	03
	(b) Explain plastic product design consideration related to Under- cut	04
	(c) Discuss the procedure for designing Car bumper.	07
Q.4	(a) Explain plastic product design consideration related to Tolerance	03
	(b) Explain plastic product design consideration related to size and location of Gate	04
	(c) Discuss the procedure for designing contact lens.	07
OR		
Q.4	(a) Explain plastic product design consideration related to Parting lines.	03
	(b) Explain plastic product design consideration related to Lettering and embossing.	04
	(c) Discuss the procedure for designing chemical reactor for concentrated acid	07
Q.5	(a) Discuss the procedure for designing milk-pouch.	03
	(b) Discuss the procedure for designing Tooth-Brush	04
	(c) Discuss the procedure for designing electrical cable coating wire.	07
OR		
Q.5	(a) Discuss the procedure for designing wrist watch gear	03
	(b) Discuss the procedure for designing Helmet	04
	(c) Explain plastic product design consideration related to wall thickness.	07
