

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2024

Subject Code:3152510

Date:28-11-2024

Subject Name:Manufacturing Technology - II

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.
4. Simple and non-programmable scientific calculators are allowed.

		Marks
Q.1	(a) Classify various manufacturing processes.	03
	(b) Define economic definition of manufacturing.	04
	(c) Explain in brief: (i) Pattern (ii) Core print (iii) Chaplets (iv) Permeability (v) Grain fineness (vi) Soldering (vii) Brazing	07
Q.2	(a) State various pattern materials with advantages.	03
	(b) State various casting defects.	04
	(c) Explain gating system design in detail.	07
	OR	
	(c) Explain in detail about core making.	07
Q.3	(a) Classify various welding processes.	03
	(b) State applications of spot and seam welding processes.	04
	(c) Explain investment casting process in detail.	07
	OR	
Q.3	(a) Write difference between gas welding and gas cutting.	03
	(b) Explain working principle of arc welding.	04
	(c) State working principle of submerged arc welding. State its applications.	07
Q.4	(a) Explain in brief work strain hardening.	03
	(b) Differentiate hot and cold working.	04
	(c) State working principle of forward and backward extrusion process.	07
	OR	
Q.4	(a) Explain in brief open and close die forging.	03
	(b) Explain in brief tube drawing process.	04
	(c) Explain thread rolling and forming operation.	07
Q.5	(a) Classify plastics.	03
	(b) Explain in brief compression moulding.	04
	(c) Explain in detail slush moulding	07
	OR	
Q.5	(a) Classify various Super finishing processes.	03
	(b) State applications of powder coating process.	04
	(c) State working principle of Honning, Buffing and Burnishing. State application of each.	07
