

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V EXAMINATION – WINTER 2025

Subject Code:3154108

Date:17-11-2025

Subject Name:Process Planning and Cost Estimation

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.

- Q.1** (a) Define process planning. **03**
(b) Explain steps in process selection. **04**
(c) Write a note on Production Equipment and tooling selection. **07**
- Q.2** (a) What information required for process planning? **03**
(b) Distinguish between cost estimation and cost accounting. **04**
(c) Write a note on jigs and fixtures. **07**
- OR**
- (c) Explain elements of cost. **07**
- Q.3** (a) What is importance of estimation? **03**
(b) Explain estimating procedure. **04**
(c) Explain methods of allocation of over head charges. **07**
- OR**
- Q.3** (a) What is forging? **03**
(b) Explain estimation in forging. **04**
(c) Explain different forging losses. **07**
- Q.4** (a) What is pattern? **03**
(b) How will you estimate pattern cost? **04**
(c) Explain estimation in foundry shop. **07**
- OR**
- Q.4** (a) What is arc welding? **03**
(b) Explain estimation in welding shop. **04**
(c) Explain calculation of machining time in milling operations. **07**
- Q.5** (a) Explain cutting speed. **03**
(b) Explain calculation of machining time in plain turning. **04**
(c) Explain calculation of machining time in shaping and planning. **07**
- OR**
- Q.5** (a) Differentiate between Drilling and Boring. **03**
(b) Explain calculation of machining time grinding operations. **04**
(c) Explain calculation of machining time in Drilling and Boring. **07**
