

GUJARAT TECHNOLOGICAL UNIVERSITY
PDDC - SEMESTER-IV • EXAMINATION – WINTER 2013

Subject Code: X41901**Date: 03-12-2013****Subject Name: Manufacturing Process-I****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

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

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|------------|---|-----------|
| Q.1 | (a) Explain basic methods of milling | 07 |
| | (b) Differentiate between a shaper and planner | 07 |
| Q.2 | (a) Explain grinding wheel designation system | 07 |
| | (b) Differentiate between centre type and centre less grinding machine. | 07 |
| | OR | |
| | (b) Explain different indexing method used in milling machine. | 07 |
| Q.3 | (a) Explain Hydraulic shaper mechanism | 07 |
| | (b) Explain different taper turning methods. | 07 |
| | OR | |
| Q.3 | (a) Write a short note on different types of chucks used in lathe. | 07 |
| | (b) Write advantages, limitations and applications for broaching | 07 |
| Q.4 | (a) Explain Slotted disc mechanism in slotting machine. | 07 |
| | (b) Explain different operations performed with lathe | 07 |
| | OR | |
| Q.4 | (a) Explain different types of reamers used in drilling | 07 |
| Q.4 | (b) Explain instruments used in alignment test of lathe | 07 |
| Q.5 | (a) Explain Trueing and dressing of grinding of grinding wheel | 07 |
| | (b) Explain Jig boring machine. | 07 |
| | OR | |
| Q.5 | (a) Explain different operations performed with drilling | 07 |
| | (b) Give the classification of grinding machine. | 07 |
