

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
PDDC SEM-IV Examination-Nov-2011

Subject code: X41901

Date: 21/11/2011

Subject Name: Manufacturing process-I

Time: 2.30 pm -5.00 pm

Total marks: 70

Instructions:

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

- Q.1** (a) Write short note on different types of chucks used in a lathe **07**
(b) Explain different taper turning method **07**
- Q.2** (a) Explain basic method of milling **07**
(b) Explain the slotted disc mechanism in slotting machine **07**
- OR**
- (b) Differentiate between a shaper and a planer **07**
- Q.3** (a) Explain different operation perform with the help of lathe **07**
(b) Explain hydraulic shaper mechanism **07**
- OR**
- Q.3** (a) Explain different types of milling cutter **07**
(b) Explain different indexing method used in milling machine. **07**
- Q.4** (a) Explain grinding wheel designation system **07**
(b) Differentiate between centre type and centre less grinding machine. **07**
- OR**
- Q.4** (a) Explain wheel trueing and dressing of grinding wheel. **07**
Q.4 (b) Explain jig boring machine. **07**
- Q.5** (a) Write advantages, limitations, and applications for broching **07**
(b) Explain crank and slotted link quick return mechanism in a shaper. **07**
- OR**
- Q.5** (a) Explain different operations performed with the help of a drilling machine. **07**
(b) Explain different types of reamers used in drilling. **07**
