

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Semester -III Remedial Examination May - 2011****Subject code: 335501****Subject Name: Mechanical Technology****Date: 20 /05 /2011****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.
4. English version is Authentic

- | | | |
|-------------|---|-----------|
| Q.1 | (a) Explain with neat sketch different types of chip produced in machining. | 07 |
| | (b) Draw block diagram of Lathe & label its parts. | 07 |
| Q.2 | (a) Explain different cutting tool materials | 07 |
| | (b) Draw block diagram of drilling machine tool & explain its working. | 07 |
| | OR | |
| | (b) Compare shaper & planner machine tool. | 07 |
| Q.3 | (a) Draw block diagram of shaper & label its parts. | 07 |
| | (b) Explain vertical milling machine with neat sketch. | 07 |
| | OR | |
| Q.3 | (a) Explain any FIVE milling machine operations with neat sketch. | 07 |
| | (b) Explain marking system of grinding in chart form. | 07 |
| Q.4 | (a) Explain steps involved in making a casting | 07 |
| | (b) List different hand molding equipments used in foundry. Explain any FIVE with neat sketch | 07 |
| | OR | |
| Q. 4 | (a) What is core ? Explain different types of core with neat sketch. | 07 |
| | (b) Explain induction furnace with neat sketch | 07 |
| Q.5 | (a) Explain different pattern making materials | 07 |
| | (b) Compare hot working & cold working process | 07 |
| | OR | |
| Q.5 | (a) Describe safety rules observed in 'FOUNDRY' | 07 |
| | (b) Compare with neat sketch forging, casting, machining process | 07 |
