

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER - III EXAMINATION – WINTER 2014

Subject Code: 133404**Date: 20-12-2014****Subject Name: Basic Manufacturing Processes****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.

- Q.1** (a) Explain the feed mechanism of lathe. **07**
(b) Explain different milling indexing methods. **07**
- Q.2** (a) Write brief descriptions and functions of lathe parts. **07**
(b) Explain apron mechanism of lathe with neat sketch. **07**
- OR**
- (b) Explain open and cross belt drive mechanism of planer with neat sketch. **07**
- Q.3** (a) Discuss various shaper operations. **07**
(b) Write about the types of drilling machine. **07**
- OR**
- Q.3** (a) What is the working principle of slotter? Explain. **07**
(b) Write about drilling machine work holding devices. **07**
- Q.4** (a) Explain the milling cutter holding devices with sketches. **07**
(b) Explain milling machine mechanism. **07**
- OR**
- Q.4** (a) Classify the milling cutters. **07**
(b) Write in brief about 7 milling machine operations. **07**
- Q.5** (a) Explain the standard marking system of grinding wheels. **07**
(b) Explain the procedure of grinding wheel mounting. **07**
- OR**
- Q.5** (a) How to select a grinding wheel? Explain. **07**
(b) Discuss about special grinding machines. **07**
