

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VI • EXAMINATION – SUMMER • 2015

Subject Code: 162504

Date: 12/05/2015

Subject Name: Allied Manufacturing Processes

Time: 10.30am-01.00pm

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) Discuss the main parts of a turret lathe. **07**
(b) Enumerate the advantages of a turret lathe. **07**

- Q.2** (a) Discuss various work holding equipments used on a turret lathe. **07**
(b) Describe Sliding Head Screw Machine. **07**

OR

- (b) With the help of neat diagram, explain the Bar feed mechanism for automats. **07**

- Q.3** (a) Enlist various Thread manufacturing methods and discuss any Two of them. **07**
(b) Discuss various Thread Rolling Machines. **07**

OR

- Q.3** (a) Explain various Gear Forming Methods. **07**
(b) What are different Form Cutter methods used for gear manufacturing? Explain any one in detail. **07**

- Q.4** (a) Write about Gear Generating processes. **07**
(b) Discuss: (i) Gear Grinding (ii) Gear Lapping (iii) Gear Honing **07**

OR

- Q.4** (a) Explain working of Abrasive Jet Machining with its merits and demerits. **07**
(b) Explain Electro Chemical Machining. **07**

- Q.5** (a) Explain Zink plating and Chrome plating. **07**
(b) Explain Injection moulding of plastics. **07**

OR

- Q.5** (a) Explain working of Ultra Sonic Machine with simple sketch. **07**
(b) Explain working of EDM with simple sketch. **07**
