

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – VI • EXAMINATION – WINTER 2012

Subject code: 162504**Date: 07/01/2013****Subject Name: Allied Manufacturing Processes****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

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

- Q.1** (a) Distinguish between 'Saddle type turret lathe' and 'Ram type turret lathe'. **07**
(b) Explain the method of cutting gears by milling. **07**

- Q.2** (a) Discuss the various threads rolling machines. **07**
(b) What is the principle of EDM? Explain the function of the dielectric fluid used in EDM. **07**

OR

- (b) Explain the method of AJM with the help of schematic diagram. **07**

- Q.3** (a) Sketch and explain extrusion process for plastic. **07**
(b) Distinguish between 'Chrome plating' and 'Dull plating' process. **07**

OR

- Q.3** (a) Sketch and explain 'Blow molding processes' for plastic. **07**
(b) Discuss Zink Plating process with advantages and limitation. **07**

- Q.4** (a) Discuss various gear finishing operations. **07**
(b) Differentiate between 'Transverse thread grinding' and 'Plunge cut grinding'. **07**

OR

- Q.4** (a) With the help of a neat diagram, discuss the design features of a hob. **07**
(b) Discuss various types of self opening die heads. **07**
Q.5 (a) Describe a Swiss-type automatic and tell how it differs from other single spindle automatics? **07**
(b) Explain the principle of USM. What is the difference between USM and conventional grinding? **07**

OR

- Q.5** (a) With the help of neat diagram, explain the bar feeding mechanism for automatics. **07**
(b) Explain the method of WJM with the help of a schematic diagram. **07**
