

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA ENGINEERING – SEMESTER – VII • EXAMINATION – SUMMER 2016**

**Subject Code: 372305**

**Date: 10/05/2016**

**Subject Name: Advance Fabrication Technique**

**Time: 10:30 AM TO 01:00 PM**

**Total Marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

- Q.1** (a) List out conventional fabrication techniques. Explain any three operations carried out on a lathe machine. **07**  
(b) “Advancement in fabrication is the need of an industry.” Justify the statement. **07**
- Q.2** (a) Explain construction and working of copying lathe. **07**  
(b) Write advantages and disadvantages of copy milling machine. **07**  
OR  
(b) Explain how copy milling machine is helpful in producing multi cavity mold. **07**
- Q.3** (a) Explain working principle of pantograph die sinking machine. **07**  
(b) Differentiate jig boring machine and vertical milling machine. **07**  
OR
- Q.3** (a) Explain working principle of jig boring machine. **07**  
(b) List out various mold parts and state the fabrication technique for making it. **07**
- Q.4** (a) What is the use of spark erosion process? Draw spark erosion machine diagram and label different parts. **07**  
(b) Explain the hobbing process with neat sketch. **07**  
OR
- Q.4** (a) Write short note on dielectric medium and tool materials for spark erosion process. **07**  
(b) State applications, advantages and disadvantages of hobbing process. **07**
- Q.5** (a) Explain working principle of electroforming process. **07**  
(b) What is CNC machining? Explain the importance of CNC in modern fabrication workshop. **07**  
OR
- Q.5** (a) State advantages and disadvantages of CNC machining. **07**  
(b) Write a short note on part programming structure in CNC. **07**

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