

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – VI • EXAMINATION – SUMMER- 2017

Subject Code: 3362302

Date:04-05-2017

Subject Name: MOULD FABRICATION TECHNOLOGY - II

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. English version is authentic.

- Q.1** Answer any seven out of ten. **14**
1. State any two advantages of advance fabrication techniques.
 2. State material of wire use in wire cut EDM process.
 3. List any two advantages of copy milling machine.
 4. Give applications of pantograph die sinking machine.
 5. State basic difference between drilling and boring operations.
 6. List types of hob materials.
 7. State basic need of pattern use for electroforming process.
 8. Give applications of buffing in polishing.
 9. Give full form of CAM and CAD.
 10. What is prototyping? Give any one application.
- Q.2** (a) State various conventional fabrication techniques. **03**
OR
(a) State limitations of conventional fabrication techniques. **03**
(b) Draw spark erosion machine and label different parts. **07**
OR
(b) Explain wire cut EDM process with neat sketch. **07**
(c) List dielectric medium and tool material use in spark erosion process. **04**
OR
(c) Give advantages and disadvantages of wire cut EDM. **04**
- Q.3** (a) State advantages of copy milling machine. **03**
OR
(a) List out various polishing materials. **03**
(b) Explain working principle of copy milling machine with neat sketch. **07**
OR
(b) Explain working principle of pantograph die sinking machine. **07**
(c) Explain basic principle of cold hobbing process. **04**
OR
(c) State advantages and disadvantages of cold hobbing process. **04**
- Q.4** (a) Explain various components of CNC machines. **07**
OR
(a) Explain electroforming process and state advantages of it. **07**
(b) List out various polishing methods and explain any two. **07**
- Q.5** (a) State advantages of CNC machines. **04**
(b) Differentiate jig boring machine and vertical milling machine. **04**
(c) State applications of Selective Laser Sintering process. **03**
(d) State significance of prototyping methods. **03**
