

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-V • EXAMINATION – WINTER • 2014****Subject Code: 3335505****Date: 03-12-2014****Subject Name: Fabrication Technology - 1****Time: 10:30 am - 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 considered to be Authentic.

- Q.1** (a) Prepare tabulated chart of ANY SEVEN commercial forms of metal **07**
(b) Explain different structural shop floor operation with neat sketch **07**
- Q.2** (a) Explain various types Hammer with neat sketch **07**
(b) 1. Classify the files based on various criteria. **07**
2. Explain the file with neat sketch label its various elements.
- OR
- (b) Explain need of knowledge, attitude and skills required for structural fabrication shop floor supervisor **07**
- Q.3** (a) Explain flash back arrester and anti return flow valve used in oxy acetylene cutting process. **07**
(b) Explain water jet cutting process with neat sketch **07**
- OR
- Q.3** (a) Explain advantages, disadvantages & applications of following structural joining process **07**
1) Mechanical fastening process 2) Adhesive bonding 3) Welding 4) Brazing 5) Soldering process
(b) Explain the procedure of fabrication of steel structure as per IS – 800 with their salient features. **07**
- Q.4** (a) Explain the method of erection of Industrial shade **07**
(b) Draw neat sketch of structural Fit-up & Set-up of I-Section, Channel and Angle. **07**
- OR
- Q. 4** (a) Explain marking and measuring tools & equipment used in structural fabrication shop. **07**
(b) Explain with neat sketch applications & practical use of Trammels. **07**
- Q.5** (a) Explain method for calculating volume of square, rectangle, solid circular section, pipe and angle section with neat sketch. **07**
(b) Explain in brief **07**
(1) Storing (2) Handling (3) Stacking (4) Color coding of structural steel.
- OR
- Q.5** (a) A) Explain in brief tolerance & deviation in structural fabrication. **07**
B) Explain in brief acceptable deviation in a fabricated steel structure.
(b) Explain the process of inspection in structural fabrication industry. **07**
