

**GUJARAT TECHNOLOGICAL UNIVERSITY****DIPLOMA ENGINEERING – SEMESTER – 4(NEW) • EXAMINATION – SUMMER 2018****Subject Code: 3345502****Date: 30-Apr-2018****Subject Name: Sheet Metal Fabrication****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

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

- Q.1 (a) Draw pattern development of object shown in Fig.-1. 07  
(b) Explain different metal used in sheet metal work. 07
- Q.2 (a) List different press working Dies and Explain any three with neat sketch. 07  
(b) What is stock layout in press working? Explain different factor effecting stock layout. 07
- OR
- (b) Define the soldering process. Explain principles of good soldering process. 07
- Q.3 (a) Write definition of brazing and Explain its principle of operation with neat sketch. 07  
(b) List different brazing process and Explain torch brazing process with neat sketch. 07
- OR
- Q.3 (a) Define “Gas Welding Process” and Explain its principle of operation with neat sketch. 07  
(b) Explain chemistry of oxy-acetylene flame. 07
- Q.4 (a) Write advantages, limitation and application of gas welding process. 07  
(b) Comparing soldering, brazing & gas welding process in table Form. 07
- OR
- Q. 4 (a) Write definition of spot welding and Explain procedure of spot welding with neat sketch. 07  
(b) Write definition of seam welding and Explain principle of operation with neat sketch. 07
- Q.5 (a) Explain resistance welding cycle with neat sketch 07  
(b) Explain different types of screw locking devices with neat sketch 07
- OR
- Q.5 (a) Explain screwed thread terminology with neat sketch. 07  
(b) List different application of sheet metal work and Explain any two with neat sketch. 07

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