

GUJARAT TECHNOLOGICAL UNIVERSITY**DIPLOMA D.ARCH – SEMESTER-1 EXAMINATION –WINTER- 2019****Subject Code: 3316202****Date: 06-01-2020****Subject Name: Technical Drawing - I****Time: 10:30 AM TO 01:30 PM****Total Marks: 40****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

- Q.1** (a) Draw orthographic projection of 60mm line inclined to HP and VP by 40 degree and 60 degree respectively. Its lower end is 40 mm above HP and touches VP. **10**
- Q.2** Write any **two**. **10**
- (a) Draw a 120 mm long horizontal line and divide into 12 equal parts by geometrical method.
- (b) Draw a rectangle with 60 mm and 40mm sides.
- (c) Draw a Hexagon with 45 mm sides.
- Q.3** (a) Draw architectural symbol of door, window, wash basin, single seat sofa, 4 seat dining table. **05**
- (b) Draw a pentagon with 40 mm side. **05**
- OR**
- (a) Draw Surface development of cuboid with 40mm x 40mm base. 60mm height. **05**
- (b) Draw orthographic projection of a point. 45mm above HP and 30mm in front of VP. **05**
- Q.4** (a) Write a given paragraph in 5mm high fonts with guidelines. **10**

Aim of Technical drawing

The main purpose of Technical drawings is to communicate to other engineers. Drawings do the communication best merely because a picture is worth a thousand words. Giving all of the information needed to make the product and being accurate in that information is the main goal. Engineers are very picky about their drawings and must pay attention to detail.

One of the best ways to communicate ideas is through pictures, graphic illustration or drawings. Details of innovations and technical inventions are hid in drawing for the purpose of safeguarding them. Technical/engineering drawing is a means of communicating shapes, sizes, positions and proportion, features and precision of physical objects.