

GUJARAT TECHNOLOGICAL UNIVERSITY**BE(MINOR)- SEMESTER-I&II EXAMINATION – SUMMER 2025****Subject Code:114AV01****Date:03-06-2025****Subject Name: Basics of Planning - Software Applications****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. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) Explain user interface available in AutoCAD. **03**
 (b) Explain the step-by-step procedure to draw cube in detail. **04**
 (c) Enlist the basic Principle of building planning. Explain any four in detail. **07**

- Q.2** (a) Explain use of “TRIM” Command in AutoCAD. **03**
 (b) Explain procedure to draw 2-point arc and 3 point arc in detail. **04**
 (c) Write short note on history of Drafting in civil engineering. **07**

OR

- (c) Explain use of “EXTEND” Command in detail. Give four different applications in detail **07**

- Q.3** (a) What is the full form of “GDCR” & “RERA”. Explain “RERA” in detail **03**
 (b) Explain various ways available to copy one object in AutoCAD. **04**
 (c) What are the importance of Annotations and Dimension in Building plan drawing in detail. **07**

OR

- Q.3** (a) Explain how effectively we shall use the AutoCAD in preparation of structural drawings. **03**
 (b) List out the edit commands available in AutoCAD. Explain the Offset command. **04**
 (c) Explain how many workspaces are available in the AutoCAD window. Explain their uses in the projects. **07**

- Q.4** (a) Explain the “TEXT” command in detail, What are the ways available to add text in AutoCAD. **03**
 (b) What is the importance of section and elevation view in building planning? Explain in detail. **04**
 (c) Draw a simple single-line plan of a residential bungalow with 40 x 55 mt. in size. Occupancy requirements are 1 Master bedroom, 2 Bedroom, Kitchen, Hall & Common washroom. **07**

OR

- Q.4** (a) Explain how to calculate the area of the created object in AutoCAD. **03**
 (b) Explain available Units in AutoCAD. How to set units for the drawings. Explain in detail. **04**
 (c) Draw a single-line plan of a 3BHK Residential building of size 60’ x 45’. **07**

- Q.5** (a) Explain the command used to prepare plumbing Plans in AutoCAD. **03**
 (b) Explain the step-by-step procedure for setting up a window screen for AutoCAD for any new project. **04**
 (c) Draw one section view for the plan prepared above in Ques. 4 (C) or Que. 4 (C) **07**

OR

- Q.5** (a) Explain commands used to prepare Electrical plans in AutoCAD. **03**
 (b) Draw one elevation view for the plan prepared above in Ques. 4 (C) or Que. 4 (C) **04**
 (c) Explain how to switch from different views in AutoCAD. **07**
