

(GTU)
A.D. Patel Institute of Technology
Internal Test
Elements of Civil Engineering

Date: 14/10/08

Time: 8:00 am to 9:00 am

Total Marks: 20
(04)

Q.1(A) Draw the Plan with room size 6 meter length and 4 meter width. Selecting 300mm wall thickness, provide one door of size 10DT24, one window of size 12WT16, One window 10WT16, Two ventilator of size 10V5, use the plinth height 45cm, RCC beam. Assume any other required data. (Take Scale 1:50)

(B) Give the answers in detail (Any three) (06)

- (1). Explain the Role of civil engineering.
- (2). Explain the Sub- Structure & Super Structure. Write the function of any two component of the Super Structure component.
- (3). Explain the different between Load bearing Structure and framed Structure
- (4). Why we draw the Plan, Elevation & Section of the Building? Explain the different between Plan & Section.

Q.2(A) The following bearings were observed with help of Prismatic Compass. Calculate the included angles of closed traverse and apply necessary check. (04)

Line	Fore Bearing
AB	60°
BC	100°30'
CD	225°30'
DA	295 °

(B) Give the answers in detail (Any Three) (06)

1. Explain Surveying & their uses. Also explain types of Surveying.
2. When the Chain Surveying is suitable to carry out? And what is the function of optical Square.
3. Explain the Different between Prismatic Compass & Surveyor Compass.
4. Define following terms
Dip of Needle, Local attraction, True Meridian, Magnetic Meridian

-----Best of Luck-----

