

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

Date: 23/09/08

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 5 meter width. Selecting 300mm wall thickness , provide one door of size 10DT24, one window of size 12WT16, one ventilator of size 10V5, use the plinth height 45cm. Assume any other required data. (Take Scale 1:50) (04)
- (B) Give the answers in detail (Any three) (06)
1. Explain the scope of civil engineering.
 2. Explain the function of
(i) foundation (ii) Damp proof course (iii) Plinth
 3. Explain the different between Load bearing Structure and framed Structure
 4. Explain the Design loads of the Building
- 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	50°
BC	100°30'
CD	205°30'
DA	285 °

- (B) Give the answers in detail (Any Two) (04)
1. Explain the different type of offsets with sketches
 2. Write a short note on Plane Survey & Geodetic Survey.
 3. Explain the Different between Whole Circle Bearing (WCB) & Quadrant Bearing (QB) Method
- (C) Define following terms (02)
Dip of Needle, Local attraction

OR

- (C) Define following terms (02)
Base line, Check line, Tie station, Tie line

