

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING - SEMESTER- III • EXAMINATION – SUMMER • 2014

Subject Code: 3335002

Date: 11-06-2014

Subject Name: Building Construction

Time: 10:30 am - 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. English version is considered to be Authentic.

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|-------------|--|-----------|
| Q.1 | (a) Define the following: (1) Gable roof (2) Ridge (3)line of nosing (4)Baluster (5)Winder (6)valley (7) Going | 07 |
| | (b) State the types of foundation. State its objectives. | 07 |
| Q.2 | (a) Draw plan and section of grillage foundation. | 07 |
| | (b) Compare brick masonry with stone masonry. | 07 |
| | OR | |
| | (b) State and explain various types of junctions in brick masonry. | 07 |
| Q.3 | (a) Write the requirement of well designed stair. | 07 |
| | (b) Explain and sketch Open newel Stair and Circular stair. | 07 |
| | OR | |
| Q.3 | (a) State different types of window and explane lourered window with sketch. | 07 |
| | (b) State the function of lintel. Explain R.C.C. lintel with a neat sketch. | 07 |
| Q.4 | (a) Write short note with sketch on King post truss. | 07 |
| | (b) Explain with neat sketch, Lean to roof and Coupled roof. | 07 |
| | OR | |
| Q. 4 | (a) Enlist types of bonds. Compare English bond with Flemish bond. | 07 |
| | (b) Draw the plan and elevation of double Flemish bond of 2 brick thick wall. | 07 |
| Q.5 | (a) Enlist the types of stone masonry. Explain random rubble masonry. | 07 |
| | (b) Give the requirement of form work | 07 |
| | OR | |
| Q.5 | (a) Write properties and advantages of R.C.C. | 07 |
| | (b) Write advantages of steel truss over timber sloping roof. | 07 |
