

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) - EXAMINATION – SUMMER 2018

Subject Code:2170610

Date:05/05/2018

Subject Name:Professional Practices & Valuation

Time:02.30 PM to 05.00 PM

Total Marks: 70

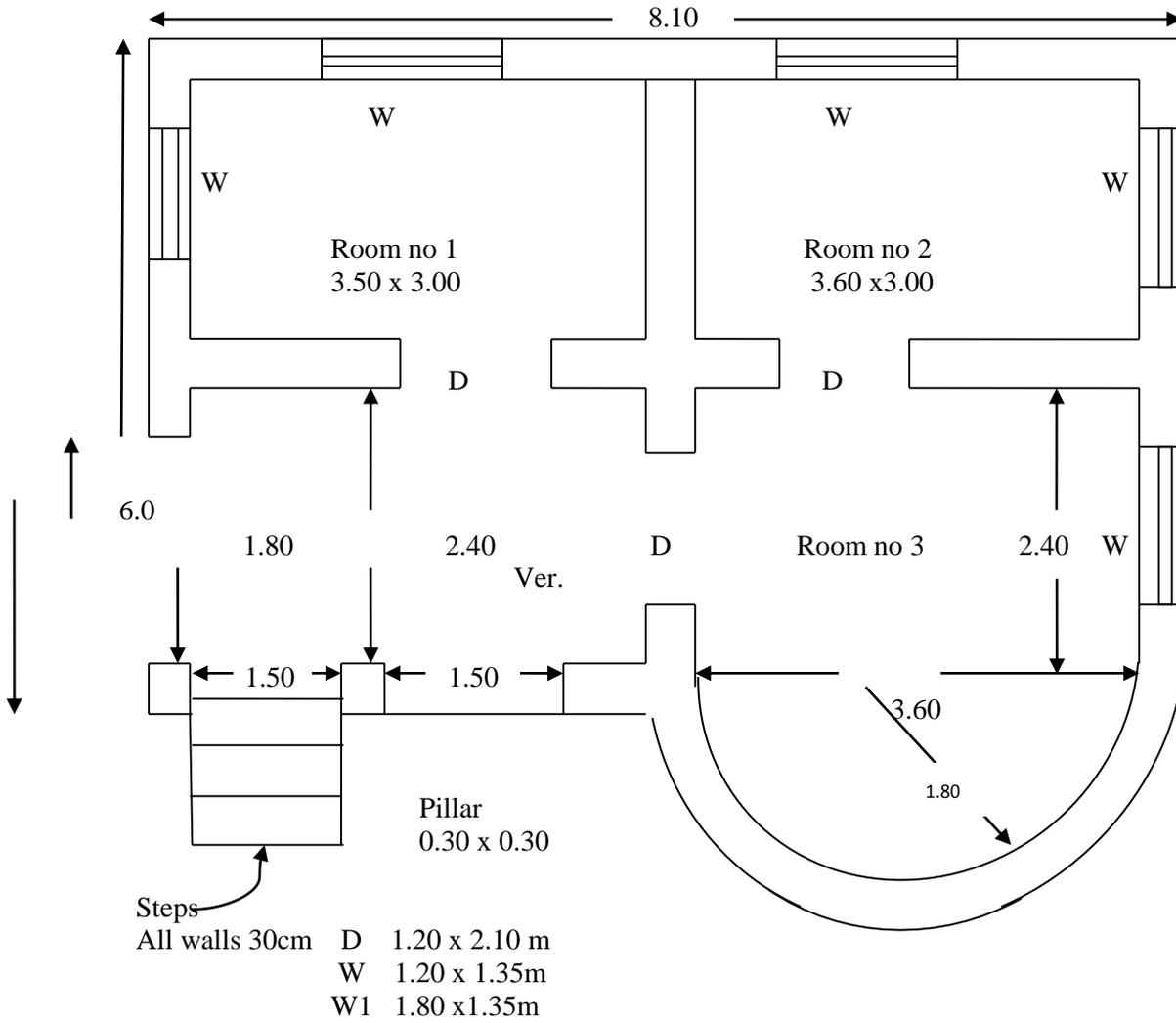
Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Determine volume of a frustum circular cone having base radius 0.6m, tip radius 0.3m and height 1.2m. **03**
(b) Compare revised estimate and supplementary estimate. **04**
(c) Enumerates and discuss various types of estimates. **07**
- Q.2** (a) Discuss accuracy criteria for concrete. **03**
(b) Determine volume of spherical segment having base 37cm, radius at top 35cm and height 25cm. take radius of sphere as 40cm. **04**
(c) Refer figure (a) and workout quantity of excavation. **07**
- OR**
- (c) Refer figure (a) and workout quantity of brickwork in foundation and plinth. **07**
- Q.3** (a) Write measurement unit of the Cement, Brickbats steel, and Oil paint Wood and Mosaic tiles. **03**
(b) Calculate the amount of cement and sand required for brick work in foundation and plinth from figure (a) **04**
(c) Discuss measurement method for road work. **07**
- OR**
- Q.3** (a) Write the purposes of specifications. **03**
(b) Define rate analysis. How to fixed rate per unit of item in rate analysis? **04**
(c) Write specification for cement concrete work as shown in figure (a). **07**
- Q.4** (a) Discuss factor affecting the task work? **03**
(b) State the situation under which the need of arbitrator arises? **04**
(c) Calculate materials require for 10m³ of R.C.C. (1:2:4) slab work. **07**
- OR**
- Q.4** (a) List condition of contract. **03**
(b) Give difference between Earnest money Deposit and Security Deposit. **04**
(c) Draft typical tender notice for civil engineering work. **07**
- Q.5** (a) Give difference between estimation and valuation. **03**
(b) Find out the yearly installment of loan of Rs. 50000 at rate of interest 12% is to be repaid in 15 years. **04**
(c) Write short note on scrutiny of tender. **07**
- OR**
- Q.5** (a) Give difference between scrap value and salvage value. **03**
(b) A building has monthly rent of 1500rs. Total outgoings are 20% of gross rent. Rate of interest on capital is 8%. Find capitalized value of building. **04**
(c) Discuss mode of payment to the contractor. How the first and final bill, running or interim bills are paid to contractor? **07**

Figure (a)

PLAN



SECTION OF A WALL

