

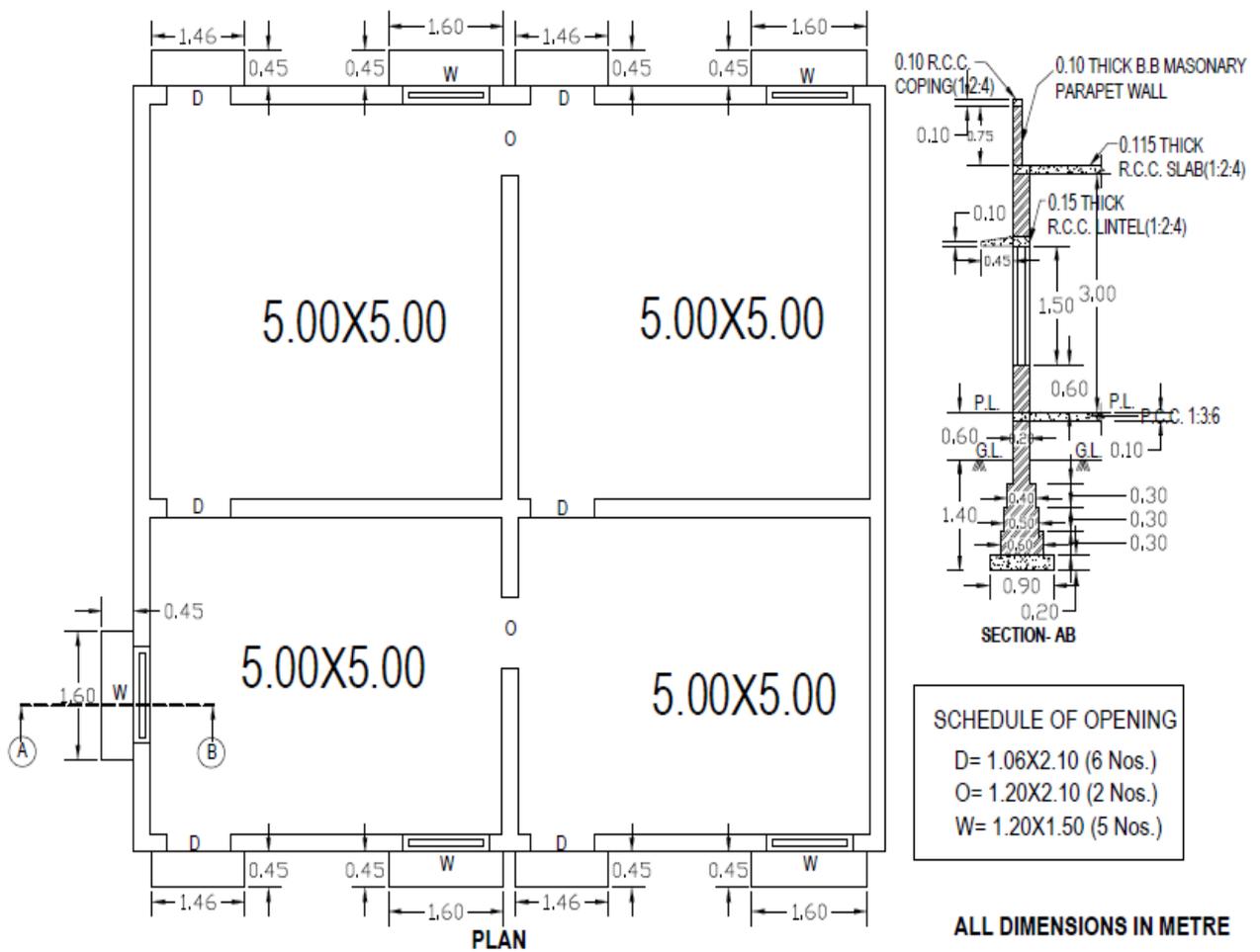
**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– VII (New) EXAMINATION – WINTER 2019****Subject Code: 2170610****Date: 03/12/2019****Subject Name: Professional Practices & Valuation****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

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

- Q.1** (a) Write formulas for the following: (1) Area of Segment of Circle (2) Volume of frustum of cone (3) Volume of sphere **03**
- (b) Define following terms – Estimate, Contingencies, Spot Item, Prime Cost **04**
- (c) For the following given figure a, calculate the quantities of following items by Centre line method **07**
- a) Earthwork in Excavation in foundation
  - b) Cement Concrete bed in Foundation
  - c) Brick masonry work in foundation up to plinth in cm 1:6.
- Q.2** (a) Discuss accuracy criteria for concrete **03**
- (b) Compare revised estimate and supplementary estimate. **04**
- (c) What is Contract? List out Various types of Special contract and explain Turnkey Contract in detail. **07**
- OR**
- (c) Enlist different types of tenders & explain anyone them **07**
- Q.3** (a) Provide the Prevailing market rate of the following materials in your city: 10 mm diameter MS Bar, Gully Trap, Kota Stone. **03**
- (b) Define rate analysis. How we can fix rate per unit of item in rate analysis? **04**
- (c) Calculate the following: **07**
1. No. of bricks required for 5 cu. m. brickwork.
  2. Materials required for M20 Grade of Concrete
- OR**
- Q.3** (a) Write short note on Schedule of rates (S.O.R) & Task of Work **03**
- (b) Differentiate between Estimation & Valuation **04**
- (c) Write short note on : **07**
1. Scrutiny of tender
  2. Classification of tender
- Q.4** (a) A person requires Rs. 20000 after 5 years for the repair of his house. What amount he needs to invest at 7% to get required amount after said years? **03**
- (b) What should be the amount of loan instalment if loan amount is Rs. 12,00,000 to be paid at annual interest rate of 13.78 % in 363 months **04**
- (c) Calculate rent of newly constructed building from given data. 1) Cost of Land=7,00,000 , 2) Cost of Construction = 5,50,000 , 3) Total outgoings including sinking fund = 15.8 % of GI , 4) Net return @ 10% on construction and 5% on Land **07**

**OR**

- Q.4 (a)** What do you mean by value? State the purposes of Valuation. **03**
- (b)** Differentiate between Earnest Money Deposit & Security Deposit. **04**
- (c)** Define the following terms: 1. Scrap value 2. Estimating 3. Cost 4. Salvage value 5. Book Value 6. Free hold property 7. Lease hold property **07**
- Q.5 (a)** Explain following terms – Liquidated Damages, Unbalanced Tender, Arbitration **03**
- (b)** Discuss various reasons for rejection of the lowest tender. **04**
- (c)** Discuss mode of payment to the contractor. How the first and final bill, running or interim bills are paid to contractor? **07**
- OR**
- Q.5 (a)** Write difference between: 'Depreciation and Obsolescence.' **03**
- (b)** Define specification. What are the purpose of writing **04**
- (c)** Explain in brief various principles of writing good specifications **07**



**Figure: a**

In figure: In section-AB consider data for section starting from pcc (from bottom) pcc : 0.9 m, of step 1: 0.6 m, of step 2: 0.5 m, of step 3: 0.4 m, wall : 0.2 m

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