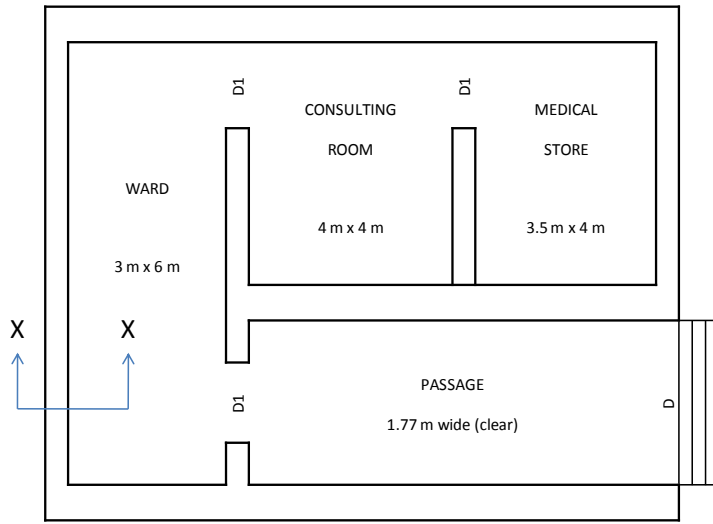


**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII(NEW) • EXAMINATION – WINTER 2016****Subject Code:2170610****Date:25/11/2016****Subject Name:Professional Practices & Valuation****Time:10.30 AM to 1.00 PM****Total Marks: 70****Instructions:**

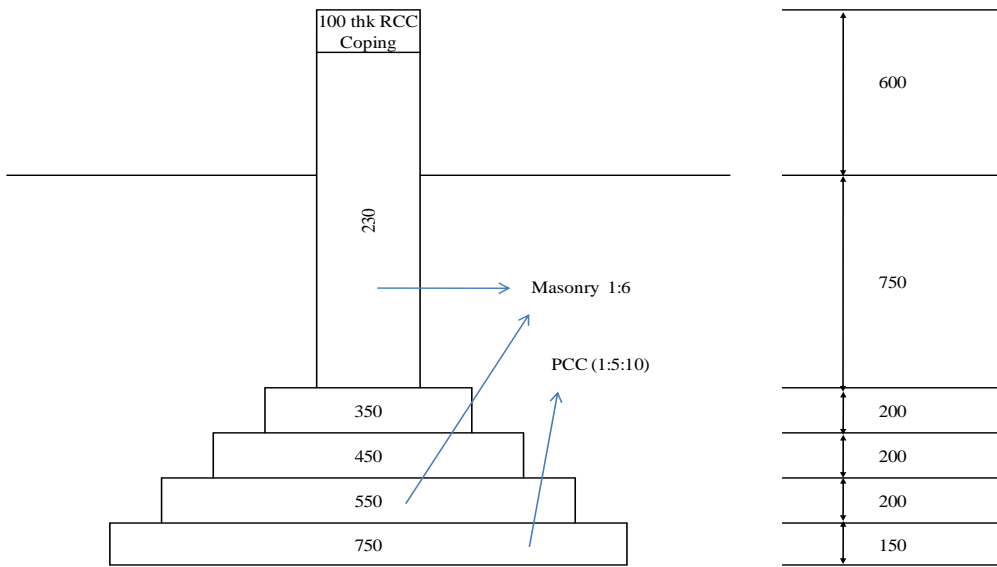
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** Plan and section for the clinic building is shown in Fig.1 given below. Estimate the quantities of the following items. Assume that steps are to be constructed in 1:6 masonry and rest on 300 mm BBCC foundation below ground level. **14**
- (a) Earthwork in excavation
  - (b) PCC (1:5:10) in foundation
  - (c) Masonry upto plinth level
  - (d) RCC coping
- Q.2 (a)** Write formulas for the following: **07**
- (1) Area of Segment of Circle (2) Area of ellipse (3) Curved surface area of cylinder (4) Volume of frustum of cone (5) Curved surface area of cone (6) Volume of sphere (7) Total surface area of cylinder
- (b)** Enumerate and discuss various types of estimates. **07**
- OR**
- (b)** Provide the prevailing market rate of the following materials in your city: **07**
- 10 mm diameter MS Bar, Gully trap, 53 grade Portland cement, 20 mm nominal size coarse aggregate, 1<sup>st</sup> class bricks, kota stone, oil paint
- Q.3 (a)** Write detailed specification for earthwork. **07**
- (b)** Enumerate and discuss various conditions of contract. **07**
- OR**
- Q.3 (a)** Write a brief note on (1) Turnkey contract (2) Item rate contract **07**
- (b)** Write detailed specification for RCC slab in M20. **07**
- Q.4 (a)** Discuss various factors affecting rate analysis. **07**
- (b)** Enumerate and discuss various types of tenders. **07**
- OR**
- Q.4 (a)** Determine the unit rate for 230 mm thick brickwork in cement mortar 1:6. **07**
- (b)** Calculate the unit rate of smooth plaster in cement mortar 1:4 for ceiling of residential building. **07**
- Q.5 (a)** Draft a tender notice for the construction of canal siphon costing Rs. 55 crore. **07**
- (b)** Explain in brief about task work, sundry & work charge establishment. **07**
- OR**
- Q.5 (a)** Define valuation. Discuss various factors affecting valuation. **07**
- (b)** How would you determine value of the property using rental method of valuation? Enumerate its advantages and limitations. **07**



RISER = 0.15 m                      D    1.77 x 2.1 m  
 TREAD = 0.30 m                    D1   1.20 x 2.1 m

**Fig.1 PLAN FOR CLINIC**



**Section:-X-X**

All dimensions are in mm

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