

1T00617 - B.E.(CIVIL)(SEM VII) (R-2012) (CBSGS) / 42002 - Quantity Survey Estimation and Valuation
(4 Hours) [Total marks : 80]

NOTE:.

- Question No. 1 is compulsory.
- Attempt any three out of the remaining five questions.
- Figures to the right indicate full marks
- Assume suitable data if required and mention it.

Q.1 Work out the following quantities from given plan & section. (Refer Fig.no.01) 20
i) Excavation for all footings. ii) P.C.C in footing beds.
iii) Flooring and skirting iv) Brick work in c:m 1:5 in Superstructure

Q.2a) Prepare approximate estimate of (G+4) R.C.C. framed bldg. having total carpet area of 500 Sq.m. Building is located in Kalyan. Assume suitable rate of construction. Also make provision of fund for sanitation, electrification, water supply etc 08

b) Explain:- i) C.B.R.I Method ii) Work charged Establishments & Contingencies
iii) Bill method 12

Q.3a) Define Specification. State the different purposes served by specification. Write brief specification of Ist class brickwork in superstructure. 08

b) Prepare rate analysis for:- P.C.C (1:1.5:3) in footings. 08

c) Explain Centre line method. 04

Q.4 a) Calculate volume of earthwork in cutting & banking for the road section whose details are given below:- (Use Mean Area Method) 10

Chainage	0	30	60	90	120	150	180	210
R.L.of ground (m)	161.5	160.95	160.55	161.55	161.85	162.95	162.35	162.8

Width of formation = 10 M.

F.L.at zero chainage = 161.60M.

Rising Gradient (1 in110)

Side Slopes = 1.5:1(Banking) & 2:1 (Cutting)

b) Explain:- Mass Haul Diagram 05

c) Explain Lead &Lift with example. 05

Q.5a) Determine standard rent per flat from the following data:-

A building is constructed newly with costs of Rs.55 lakhs on a plot of valuation

Rs.70 lakhs. Building consists of 20 flats of 75 sq.m.area each are constructed.

i) Net return on land and building = 9% ii) Life of building = 40 years

iii) Interest rate on Sinking fund = 5% iv) Salvage Value = 10%

v) Repairs and Maintenance = 2.5% of the building cost

vi) Taxes and other expenses = 20 % of the gross rent. 10

b) What is Bar bending schedule? Explain its importance in estimation Process. 05

c) What is depreciation? Explain any one method for calculating the depreciation. 05

Q.6) Write notes on followings.(any five) 20

i) Rules for deduction in plastering as per IS 1200. ii) B.O.T.Contract

iii) Easement rights. iv) Pre-bid conference v) Sinking fund

vi) Main inclusions of Tender Notice vii) Arbitration

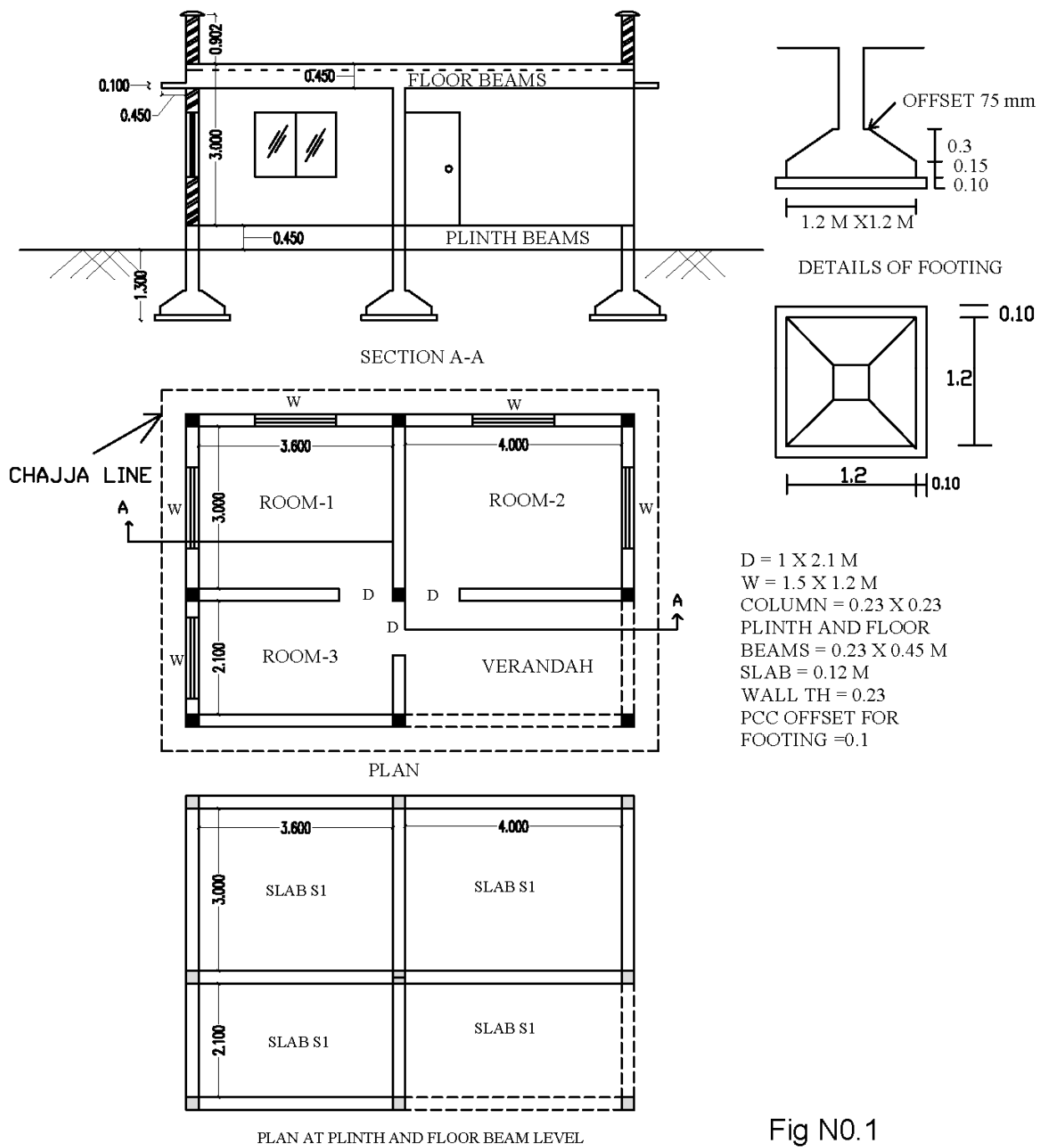


Fig NO.1