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Page 1 of 3

Paper / Subject Code: 42072 / Quantity Survey Estimation and Valuation

Q2 (a) Prepare an Abstract of cost for all items in Question Number 1

8

(b) Prepare the Bar bending schedule of a simply supported R.C.C. Lintel from the following 12 specification:

Size of lintel 300 mm wide 200 mm depth.

Main bars in tension zone of Fe 250 (grade I) 3 bars of 16 mm dia., one bar is cranked through 450 at 170 mm from each end 2 No. anchor bars at top 8 mm dia.

Two legged stirrups@150mm c/c of 6mm dia. throughout.

Clear span of the lintel is 1150 mm. Bearing on either side is 150 mm.

- Q3 (a) What are the points to be observed while framing the specification of the items? Draft the 8 detailed specification for three coat internal plastering with synthetic enamel paint
 - (b) Estimate the quantity of earthwork for a portion of a road to be constructed by Mid

 Sectional Area Method from the following data.

Formation width = 10 m. Side slope in banking = 2:1, and in cutting 1:1.

Downward gradient 1 in 120 from chainage 0 to 120 while it remains in same formation level from 120 to 180 chainage and have again upward gradient 1 in 90 from 180 to 300 chainage.

Formation level at zero chainage is 210.5 m.

Chainage and corresponding ground levels are given below.

0	30	(60)	90	120	150
210.5	200,85	199.9	198.65	196.4	199.3
180	210	240	270	300	
198.1	196.33	197.26	196.55	197.28	

- Q4 (a) Prepare an Approximate Estimate for Residential Building in western suburbs of Mumbai 10 (RCC framed structure).
 - a) Plot Area- 60 m x 30 m
 - b) FSI- 1.5
 - c) Building is G ±6
 - d) Consider foundation cost as 20 % of superstructure cost.
 - e) Allow 20% of building cost for all services.
 - Allow 2.5% of overall cost for consultant fees.
 - g) Consider 5 % provision for contingencies.

