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 5 Carryou Cement Coarse a a. Cement b. 12 mm t 6 Explain a. Schedule b. Public w c. Escalatio 	detail the different methods used to calculate the qua	
 5 Carryou Cement Coarse a a. Cement b. 12 mm t 6 Explain a. Schedule b. Public w c. Escalatio 	detail administrative sanction and technical sanction	(10 Mar
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 Coarse a a. Cement b. 12 mm t 6 Explain t a. Schedule b. Public w c. Escalation 	he rate analysis for the following items:	
 a. Cement b. 12 mm t 6 Explain t a. Schedule b. Public w c. Escalation 	320 Rs./Bag, Sand – 120/m ³ , Steel – 49 Rs./kg	
 b. 12 mm t 6 Explain t a. Schedule b. Public w c. Escalation 	gregate - 750 Rs./m ³ , Brick - 15 Rs./No.	
 6 Explain t a. Schedule b. Public w c. Escalation 	oncrete of 1:5:10 for bed in foundation.	(10 Mar)
a. Scheduleb. Public wc. Escalation	ck cement plastering in 1:3 in ceiling.	(10 Marl
a. Scheduleb. Public wc. Escalation	OR	
b. Public wc. Escalation	e following:	
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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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(04 Marks)

(04 Marks)

Refer Fig. Q7, estimate the cost of 2 roomed building by calculating following items using 7 long wall short wall method. (04 Marks)

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Ber

Earthwork in Excavation at the rate of 150 Rs./m³

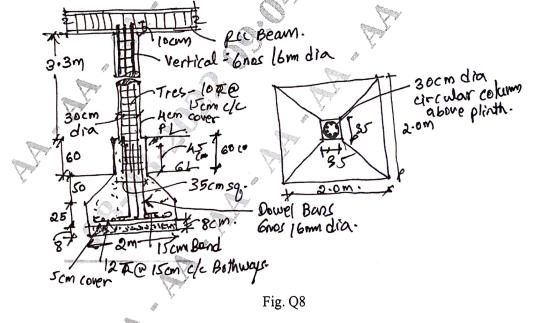
Fig. Q7

- PCC bed (1:4:8) at the rate of $4500/m^3$ a.
- SSM in CM(1 : 5) for foundation and plinth at the rate of 2200 Rs./ m^3 . b.
- c. DPC (1:3:6) at the rate of 600 Rs./ m^2
- d. Brick work in superstructure - 3700 Rs./m e.
- (04 Marks) (04 Marks) All walls are of same section Lintels over doors, windows and shelves are 15 cm thick RB Doors D – 1.2 m×2.1 m Windows W - 1.0 m \times 1.5 m
 - Shelves $S 1.0 \text{ m} \times 1.5 \text{ m}$

8

Estimate the cost of a RCC column by calculating following items. Refer Fig. Q 8.(20 Marks)

OR



Module-5

Calculate the quantity of earthwork for 200 m length for a portion of a road in an uniform ground the heights of banks at the two ends being 1.0 m and 1.6 m. The formation width is 10 m and side slopes 2 : 1 (Horizontal : Vertical). Assume that there is no transverse slope. (Calculate using midsection, mean section and Prismoidal method) (20 Marks)

9

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10

Prepare a detailed estimate of a septic tank from the given drawings, Fig. Q10 by calculating following items.

