

Total No. of Questions :6]

SEAT No. :

P2161

BE/Insem./APR-502

[Total No. of Pages : 4

B.E. (Civil)

**401008 : QUANTITY SURVEYING CONTRACTS AND TENDERS
(2015 Pattern) (Semester - II)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q.No. 1 or Q.No. 2, Q.No. 3 or Q.No. 4 and Q.No. 5 or Q.No. 6.
- 2) Figures to the right indicate full marks.
- 3) Use of logarithmic table, slide rule, Mollier chart, electronic calculator permitted.
- 4) Assume suitable data, if necessary.

- Q1)** a) Estimation is necessary for all types of construction activity, Justify. What are the prerequisites of a good estimator? [3]
- b) Prime Cost and provisional sum are necessary in construction activity, justify with suitable example. [3]
- c) Explain in detail the deductions for : [4]
- i) Brickwork.
 - ii) Plastering as per IS 1200.

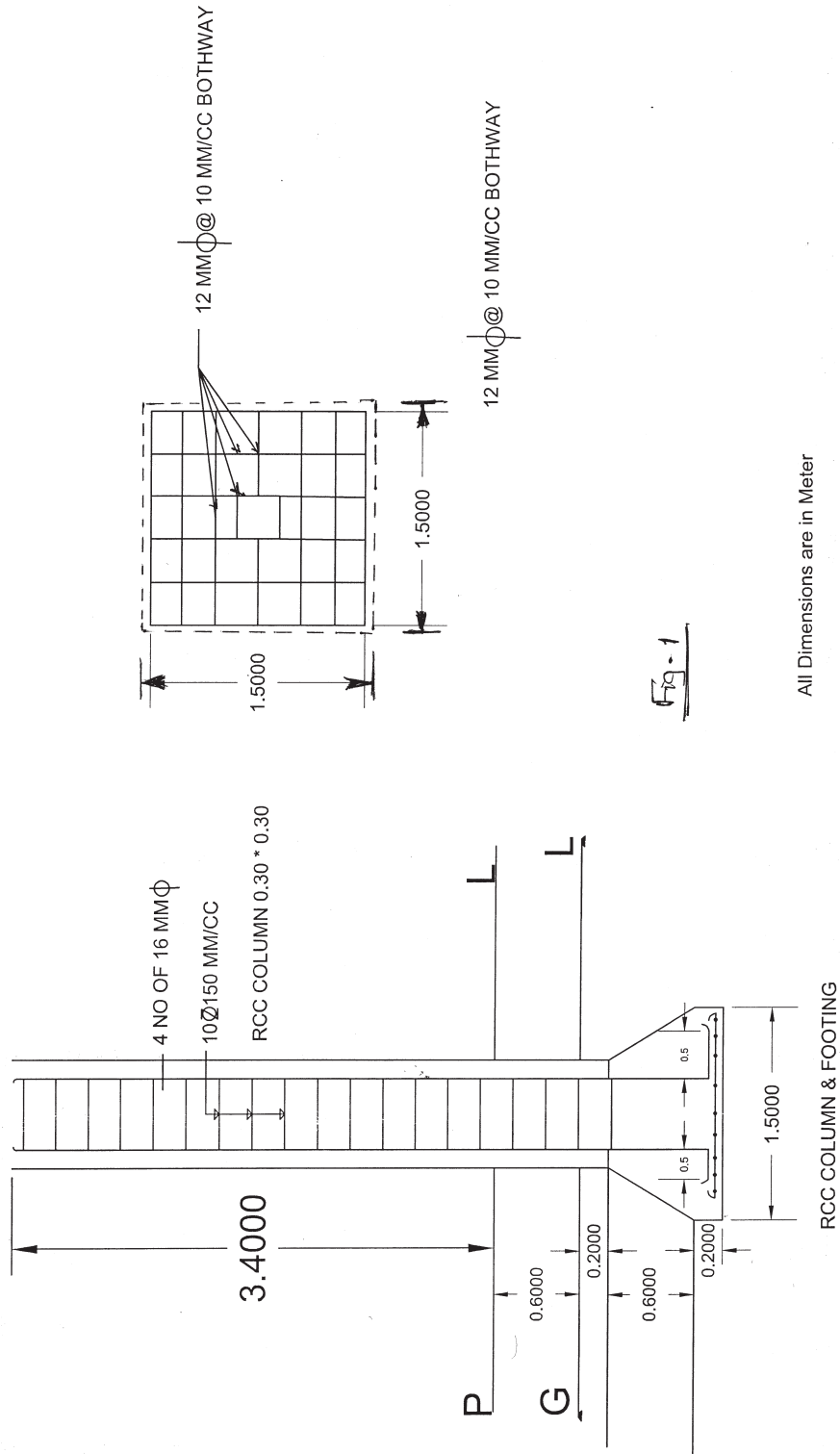
OR

- Q2)** a) Differentiate between Approximate estimate and detailed estimate and explain any one method of approximate estimate. [3]
- b) In view of knowing the feasibility for constructing a school building, as an Engineer how would you recommend the approximate cost of the building with the following data. [4]
- i) Number of students 450.
 - ii) Plinth area per student 1.80 sqm.
 - iii) Plinth area rate - Rs. 2,750/sqm of plinth area.
 - iv) Water supply and sanitary installation - 10% of cost of building.
 - v) Electrification charges - 10% of cost of building.
 - vi) Work charge establishment & Contingencies - 8% of cost of building.
 - vii) Provision of architectural finishes - 3.5% of cost of building.
- c) Explain the booking of measurement of quantities through Measurement Form and Abstract Form, for a detailed estimate. [3]

P.T.O.

Q3) Fig. 1 shows the plan and cross section of the footing and 30 cm square column. Prepare a detailed estimate for [10]

- a) CC in footing.
- b) RCC column and foundation footing.



OR
2

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Q4) Prepare a detailed estimate for the RCC roof slab with a clear span of 3.5m and length of 7 m as shown in Fig. 2. Following details may be assumed : [10]

- a) Depth of RCC roof slab 15 cms.
- b) Top and bottom cover 2.5 cm.
- c) Side cover 5 cm.

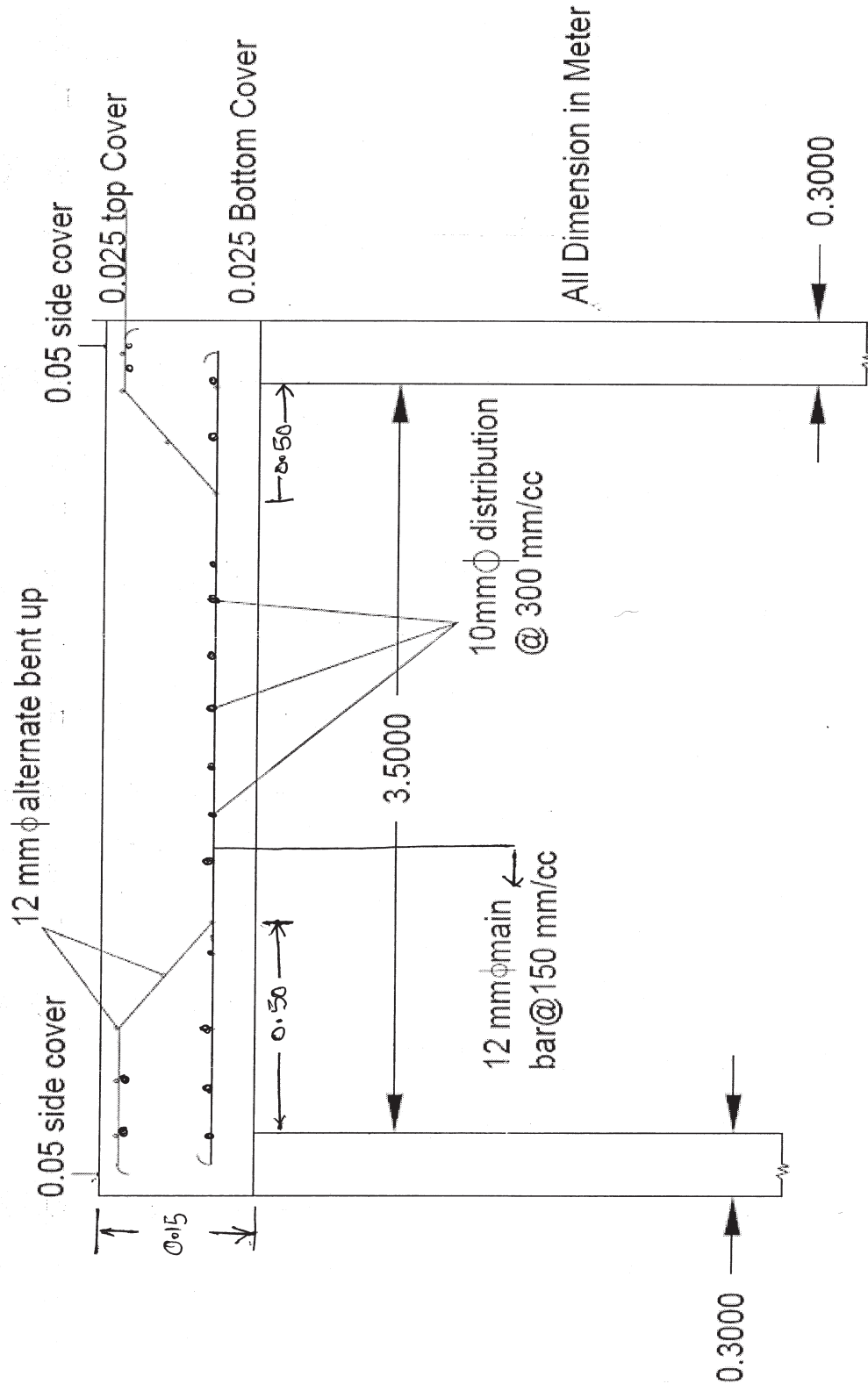


Fig 2

Q5) a) Specification is a necessary document for Civil Engineering works, explain. Discuss briefly : [5]

i) Specification for material and workmanship.

ii) Restricted specification.

b) Workout the unit rate of I class brickwork in super structure with standard brick in cement mortar 1 : 6. Assume local/suitable rate as applicable. [5]

OR

Q6) a) Draft a detailed specification for cement concrete. [5]

b) What are the different types of specification? Differentiate between General overhead and job overhead with suitable examples. [5]

