

Code No: RT42011

R13

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019

ESTIMATING, SPECIFICATIONS & CONTRACTS

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

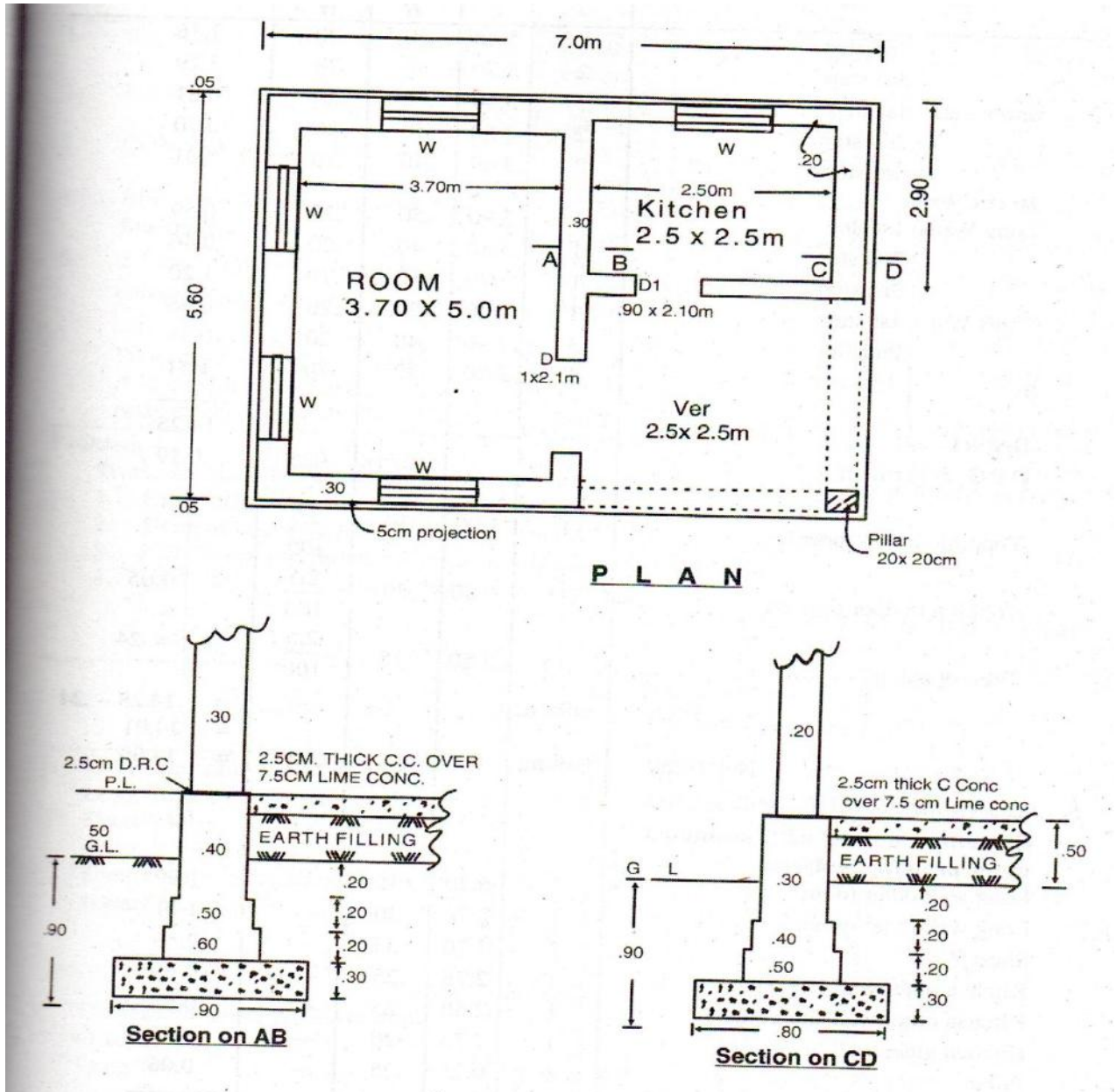
*Question paper consists of Part-A and Part-B
Answer any THREE questions from Part-A
Part-B is compulsory*

PART-A (3x14=42 Marks)

1. a) Write clear note on detailed estimate. [7]
b) How Earth work excavation and P.C.C. will be done in foundation and explain clearly? [7]
2. Find the cost of one Cubic meter quantity of the following
a) 1: 4 Cement Mortar
b) 1: 2: 4 Cement Concrete [14]
3. Write clear note on Mid Sectional Area method used for earth work excavation in roads and canals with help of examples. [14]
4. a) Write clear note on conditions of contract. [7]
b) What do you understand about the Lump-sum contract and explain? [7]
5. a) What do you understand about the Unit base Estimate method and explain? [7]
b) Write clear note on Incentive Contracts. [7]
6. a) Write clear note on lead and lift in case of earth work for road estimates. [7]
b) Find the cost of one cubic meter quantity of 1 : 4 lime mortar. [7]

PART-B (1x28 = 28 Marks)

7. Estimate the following quantities using **long wall & short wall** method by using the given diagram
(i) P.C.C in foundation ----- (5 marks)
(ii) Earth work in foundation----- (5 marks)
(iii) First class brick work in foundation---- (10 marks)
(iv) Basement filling with sand -----(4 marks)
(v) D.P.C in foundation -----(4 marks) [28]



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Set No. 2

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ESTIMATING, SPECIFICATIONS & CONTRACTS

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

*Question paper consists of Part-A and Part-B
Answer any THREE questions from Part-A
Part-B is compulsory*

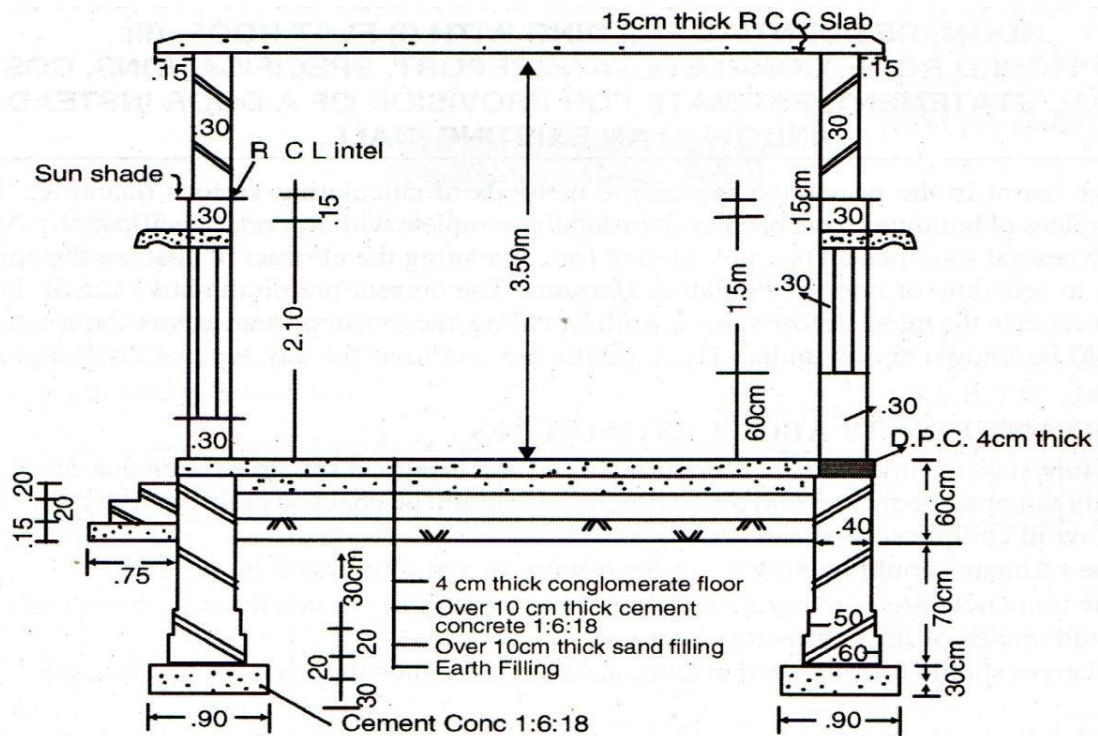
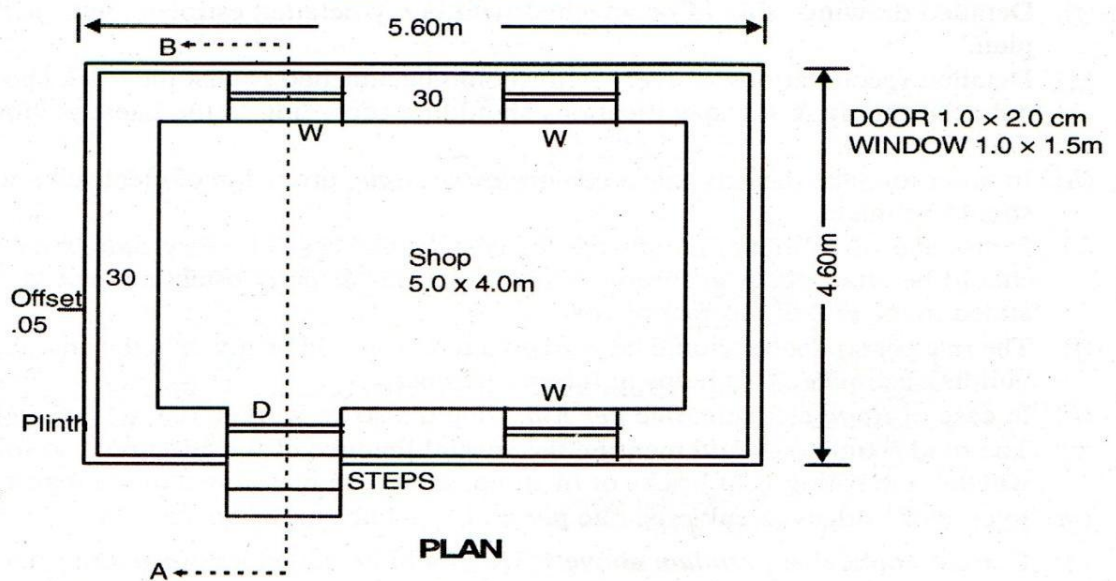
PART-A (3x14=42 Marks)

1. a) What do you understand about the abstract estimate and explain? [7]
b) Write clear note on soling and D.P.C? [7]
2. Find the cost of one Cubic meter quantity of the following
a). 1 : 6 Cement Mortar
b). 1 : 1.5 : 3 Cement Concrete [14]
3. What do you understand about the Mean Sectional Area method and explain its importance by giving suitable formulae? And under what circumstances this method is more useful? [14]
4. a) What do you understand about the **contract document** and explain? [7]
b) Write clear note on Incentive Contracts? [7]
5. a) What is the difference between white washing and colour washing and explain clearly? [7]
b) Write clear note on Cubical Contents Method for Estimate? [7]
6. a) Write clear note on bar requirement Schedules? [7]
b) Explain reinforcement bar bending with the help of neat sketches? [7]

PART-B (1x28 = 28 Marks)

7. Estimate the following quantities using **Centre line** method by using the given diagram
(i) P.C.C in foundation ----- (5 marks)
(ii) Earth work in foundation----- (5 marks)
(iii) First class brick work in foundation---- (10 marks)
(iv) Basement filling with sand -----(4 marks)
(v) D.P.C in foundation -----(4 marks) [28]



**SECTION ON AB**

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Set No. 3

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ESTIMATING, SPECIFICATIONS & CONTRACTS

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer any THREE questions from Part-A

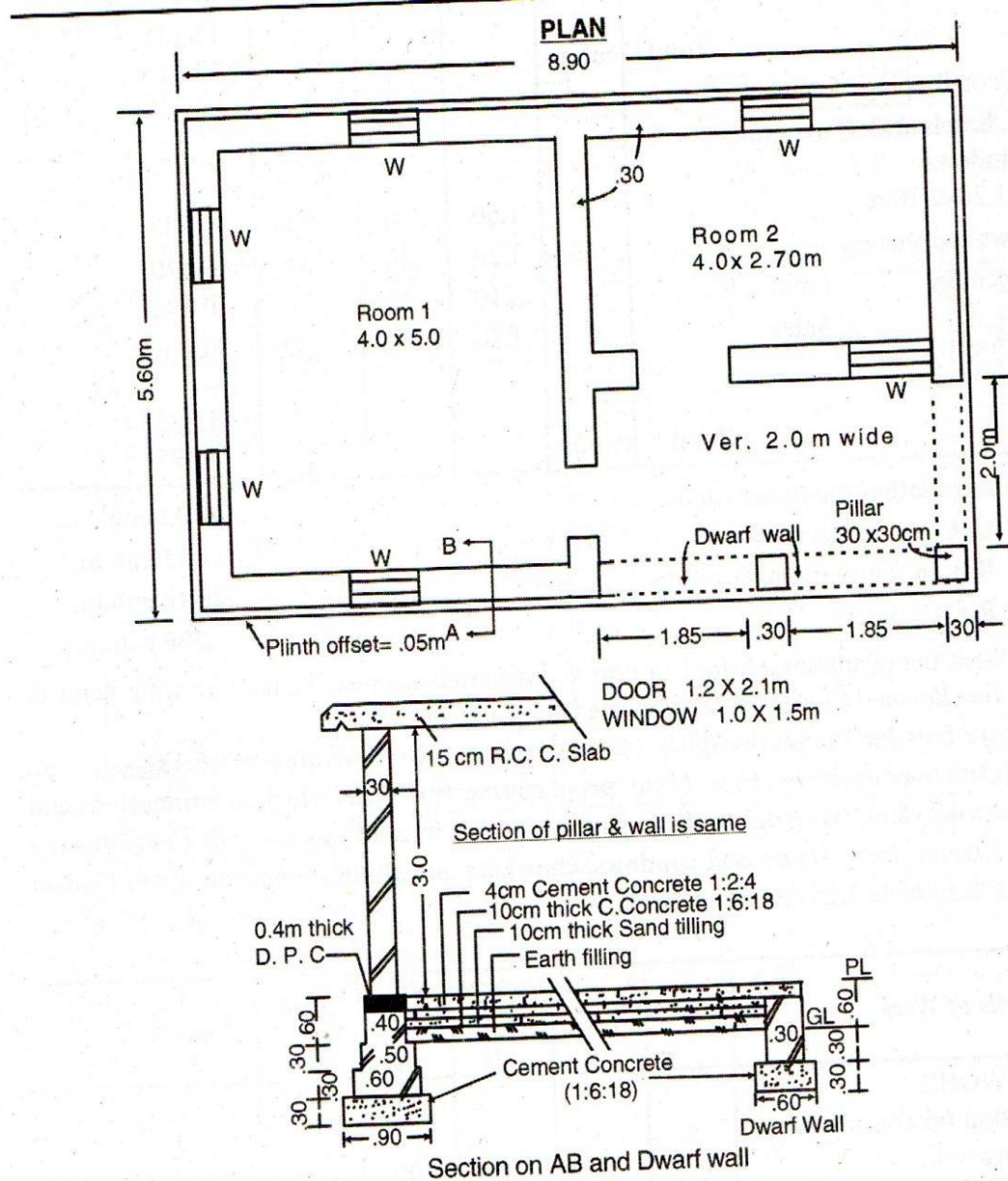
Part-B is compulsory

PART-A (3x14=42 Marks)

1. a) What are the different types in approximate estimate and explain any one? [7]
b) Write short note on Masonry, Arch Masonry and lintels over openings. [7]
2. Find the cost of one Cubic meter quantity of the following
a) 1: 8 Cement Mortar
b) 1: 3: 6 Cement Concrete [14]
3. Derive suitable formulae for PRISMOIDAL FORMULA & TRAPEZOIDAL FORMULA METHOD for the calculations of earth work in roads and canals. [14]
4. a) Define and explain about the contractor and the contract. [7]
b) Write clear note on Unit Price Contract. [7]
5. a) Write clear note on Plastering and pointing. [7]
b) Find the cost of one cubic meter of 1:4 (CM) brick masonry. [7]
6. What do you understand about the principles of Units for various items of buildings and explain briefly about them. [14]

PART-B (1x28 = 28 Marks)

7. Estimate the following quantities using **long wall & short wall** method by using the given diagram
(i) P.C.C in foundation ----- (5 marks)
(ii) Earth work in foundation----- (5 marks)
(iii) First class brick work in foundation---- (10 marks)
(iv) Basement filling with sand -----(4 marks)
(v) D.P.C in foundation -----(4 marks) [28]



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Set No. 4

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019

ESTIMATING, SPECIFICATIONS & CONTRACTS

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer any THREE questions from Part-A

Part-B is compulsory

PART-A (3x14=42 Marks)

1. a) What is explanation about the plinth area and mat area estimates? [7]
b) Write clear note on flooring and roofing? [7]
2. Find the cost of one Cubic meter quantity of the following
a) 1: 10 Cement Mortar
b) 1: 4: 6 Cement Concrete [14]
3. What do you understand about the Irrigation works and explain three cases which are involved in the earth work in canals with the help of neat sketches? [14]
4. a) What are the different types of contracts and explain any one method? [7]
b) Write any five points to be considered for the grant a contract? [7]
5. What do you understand about the standard Specifications for different items of building construction and explain any two specifications among them clearly by giving suitable examples? [14]
6. a) Write clear note on cornice and pillars in building construction? [7]
b) Write clear note on over head and contingent charges [7]

PART-B (1x28 = 28 Marks)

7. Estimate the following quantities using **Centre line** method by using the given diagram
(i) P.C.C in foundation ----- (5 marks)
(ii) Earth work in foundation----- (5 marks)
(iii) First class brick work in foundation---- (10 marks)
(iv) Basement filling with sand -----(4 marks)
(v) D.P.C in foundation -----(4 marks) [28]

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