TED (15) 5014
(Revision-2015)

A22 - 06889

Reg.No.....
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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, APRIL-2022

QUANTITY SURVEYING II

[Maximum marks: 100] (Time: 3 Hours)

[Note:- 1. Missing Data if any suitably assumed.
2. Quantities are to be worked out in standard form.
3. Steel table is permitted.
4. Sketches accompanied.]

PART – A
Maximum marks : 10

I (Answer ***all*** the questions in one or two sentences. Each question carries 2 marks)

1. Define Lead and lift.
2. Mention different types of tile roofs.
3. Write the purpose of retaining wall.
4. Define the term sinking fund.
5. Mention two methods of Rent fixation of building. (5 x 2 = 10)

PART – B
Maximum marks : 30

II (Answer any ***five*** of the following questions. Each question carries 6 marks)

1. Write the rules for taking quantity of plastering area of building.
2. Briefly explain (i) Brief specification (ii) Detailed specification.
3. Write the importance of bar bending schedule in quantity surveying.
4. Calculate the quantity of R.C.C work 1:2:4 in well steining for R.C.C. well of 10m depth and 2.00mtr. inside diameter. The thickness of steining is 0.2mtr.
5. Briefly explain what are the object of specification.
6. Mention the main purpose of valuation.
7. Write the different methods of calculation of depreciation. (5 x 6= 30)

PART – C

Maximum marks : 60

(Answer one full question from each unit. Each full question carries 15 marks)

UNIT –I

III. (a) Calculate the quantity of R.R. masonry with C.M. 1:5 for footing of the foundation of given building. (Fig.1) (7)

(b) Calculate the quantity of P.C.C 1:4:8 with 10cm thickness for flooring concrete of given building (Fig.1) (8)

OR

IV.(a) Compute the quantity of R C C 1:2:4 for roof slab sunshade of building (Fig.1) (7)

(b) Calculate the quantity of rubble masonry work with C.M. 1:4 for basement of foundation of building (Fig I) (8)

UNIT-II

V. Calculate the following quantity items for the slab culvert given in fig.II

(a) P C C 1:4:8 for abutment and wingwall (6)

(b) Ist class brick work in C.M 1:4 for abutment and wingwall (6)

(c) R.C.C work 1:2:4 for slab (3)

OR

VI. (a) Calculate the quantity of R C C work 1:2:4 in retaining wall of 30mts length (Fig.III) (7)

(b) Calculate the quantity of 16mm and 10mm dia steel bars required for the base slab of the retaining wall (Fig.III) (8)

UNIT-III

VII. (a) Write the specification of cement concrete 1:2:4 (8)

(b) Calculate the quantity of an R C C work 1:2:4 for lintel of given building. (7)

OR

VIII.(a) Write the detailed specification for plastering. (8)

(b) Work out the quantity of R C C work 1:2:4 of beam of length 15mts. breadth 0.30mtr. and depth 0.5mtr. (7)

UNIT-IV

IX. (a) (i) Define the term year's purchase

(ii) Write the different out goings consider in Valuation. (8)

(b) Define depreciation. Mention any four methods of calculation of depreciation. (7)

OR

X. (a) Define valuation Mention the factors considered for valuation. (7)

(b) Write short notes on (i) Scrap Value (ii) Salvage Value (iii) Market Value (iv) Book Value (8)

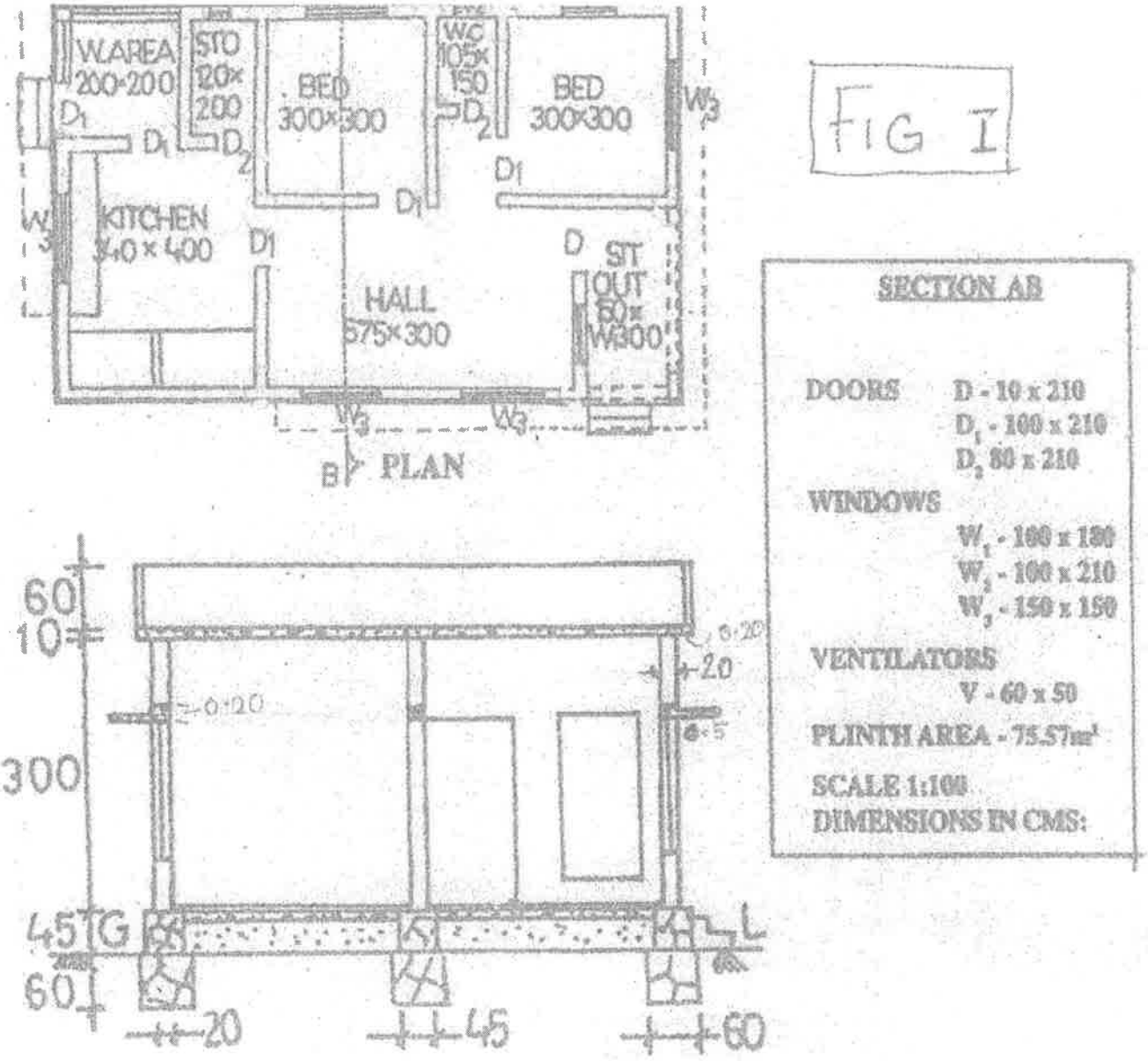
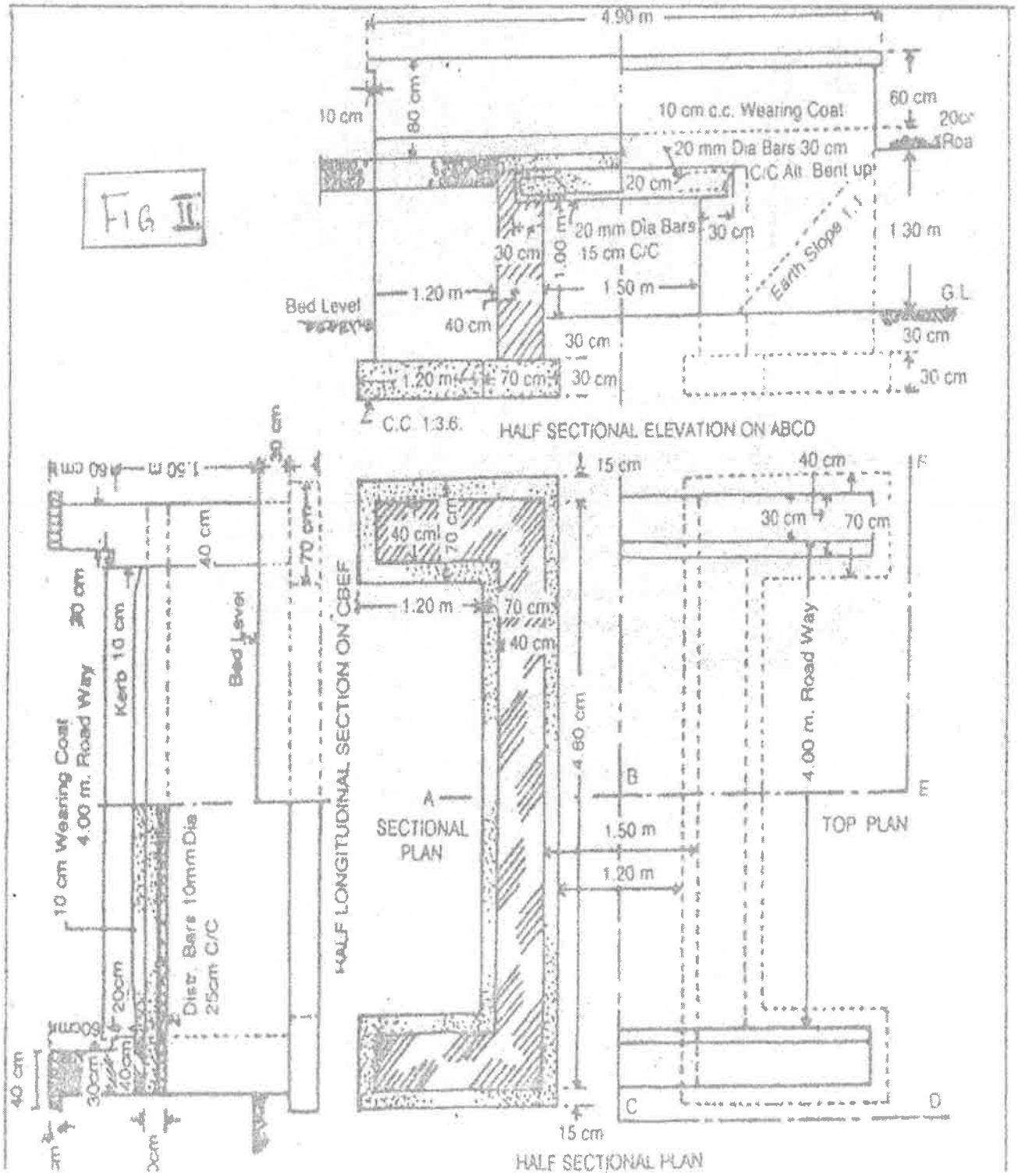


FIG II


4.90 m
10 cm
80 cm
10 cm c.c. Wearing Coat
60 cm
20 mm Dia Bars 30 cm C/C Alt. Bent up
20 cm
20 mm Dia Bars 15 cm C/C
30 cm
1.00 m
1.30 m
Earth Slope 1:1
Bed Level
1.20 m
40 cm
1.50 m
G.L
30 cm
1.20 m
70 cm
C.C 1:3:6.
HALF SECTIONAL ELEVATION ON ABCD
1.50 m
60 cm
40 cm
70 cm
Kerb 10 cm
10 cm Wearing Coat
4.00 m. Road Way
Dist. Bars 10mm Dia 25cm C/C
HALF LONGITUDINAL SECTION ON CBEF
15 cm
4.60 cm
A
SECTIONAL PLAN
B
TOP PLAN
C
D
E
F
HALF SECTIONAL PLAN

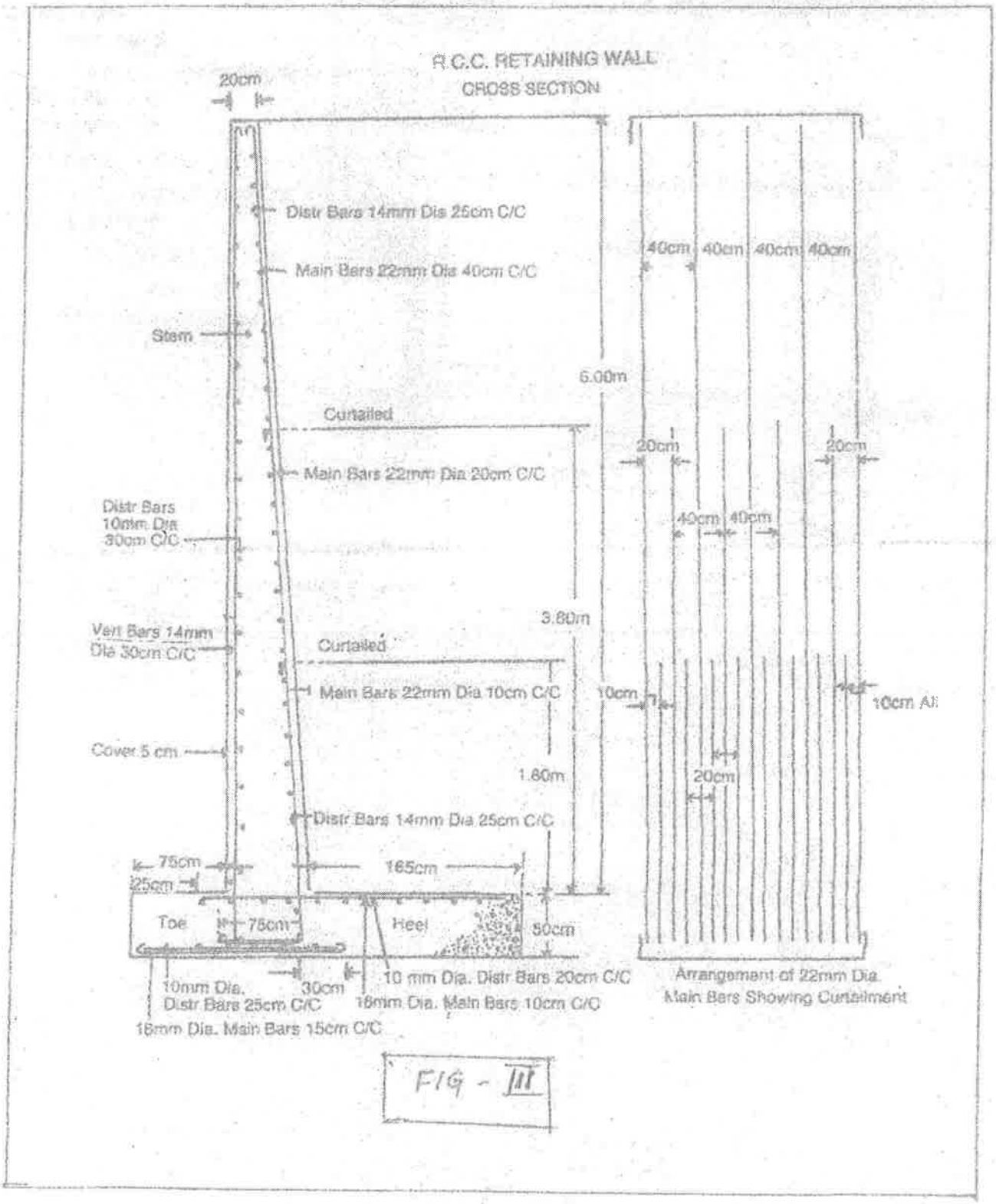

R.C.C. RETAINING WALL
CROSS SECTION
20cm
Distr Bars 14mm Dia 25cm C/C
Main Bars 22mm Dia 40cm C/C
Stem
6.00m
Curtailed
Main Bars 22mm Dia 20cm C/C
Distr Bars 10mm Dia 30cm C/C
3.80m
Vert Bars 14mm Dia 30cm C/C
Curtailed
Main Bars 22mm Dia 10cm C/C
Cover 5 cm
1.80m
Distr Bars 14mm Dia 25cm C/C
75cm
165cm
25cm
Toe
75cm
Heel
50cm
10mm Dia. Distr Bars 25cm C/C
30cm
10 mm Dia. Distr Bars 20cm C/C
16mm Dia. Main Bars 10cm C/C
16mm Dia. Main Bars 15cm C/C
40cm 40cm 40cm 40cm
20cm
20cm
40cm 40cm
10cm
10cm Al
20cm
Arrangement of 22mm Dia. Main Bars Showing Curtailment

FIG - III

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