

**MAHARASHTRA JEEVAN PRADHIKARAN
RESEARCH AND TRAINING CENTRE, NASHIKROAD**

**Professional Examination of Asstt.Engineer- II / Sectional Engineer
/ Jr.Engineer**

October 2011

Subject :- Practical & Oral test of surveying & setting out (Civil)

Date :- 14/10/2011

Time :- 8.00 onwards

Marks :- 100

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- Note :-
- (1) All Questions are compulsory.
 - (2) Use of calculator set-square. mini drafter. T-square are allowed.
 - (3) Marks are reserved in Each questions for clear sketches good hand writing and neatness in general)
 - (4) Fig. in right hand side bracket indicate full marks)
 - (5) Make suitable assumptions where necessary and state then clearly.
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- Question No.1** Line out (40) 50
- Prepare a full dimensional foundation plan of structure as per line plan and other data given mark the same on the ground. Diminutions for checking accuracy for foundation plan shall be worked out & shown on foundation plan clearly.
- Question No.2** Find out the R.L. of points A.B.C.D & E mark on site by using. Leveling instruments provided to you, use rise and fall method. Enter all reading in the field book. Adopt value of TBM as 100.00 mts. (TBM will be shown by the examiner) (20) 150
- Question No.3** Find out area of figure enclosed with the help of planimeter. Write the formula used by you. (20)
- Question No.4** (A) Oral Test (20)

SUB:- PRACTICAL & ORAL TEST IN SURVEYING AND SETTING OUT

FIG. Q. No. 1

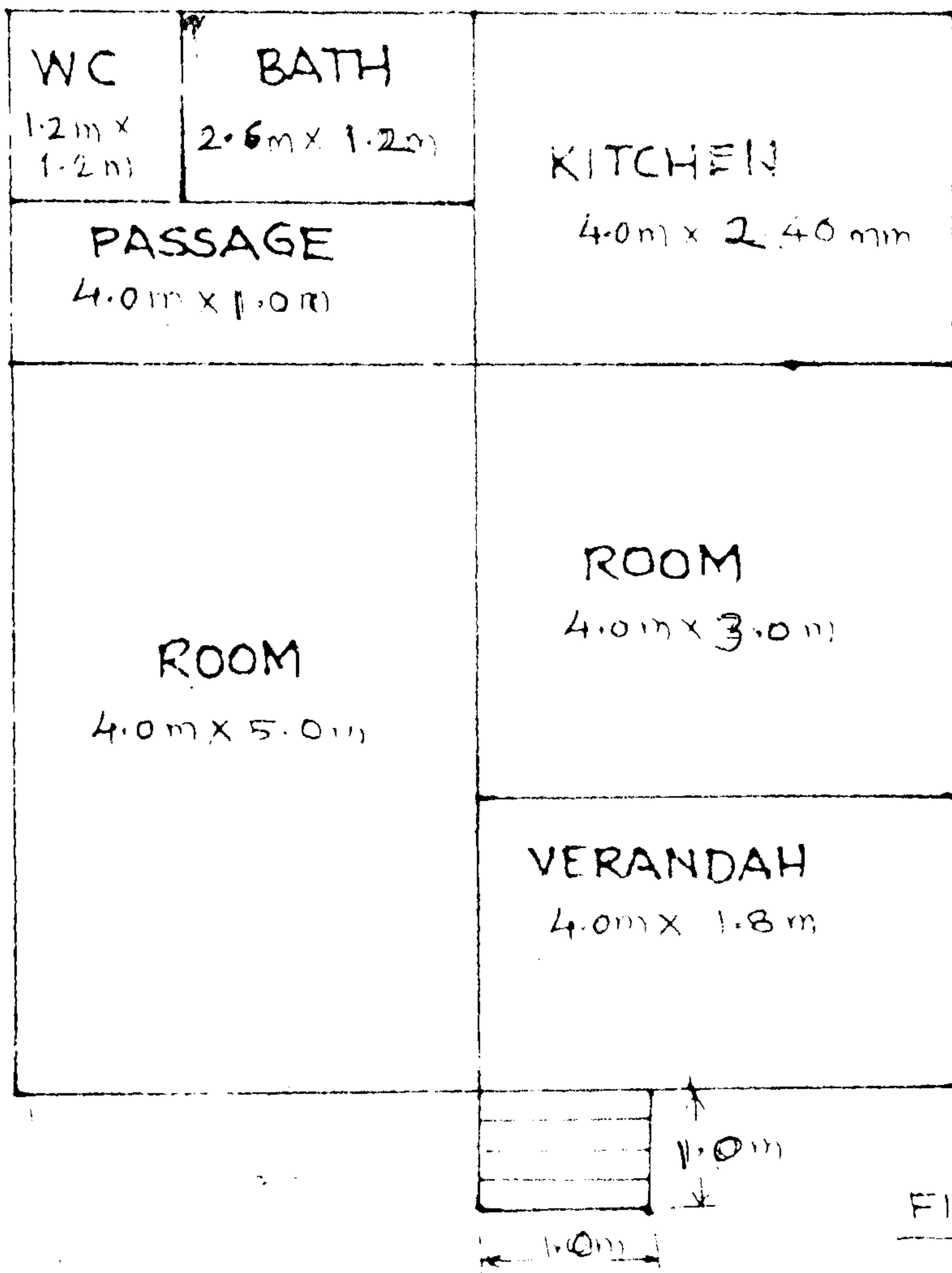
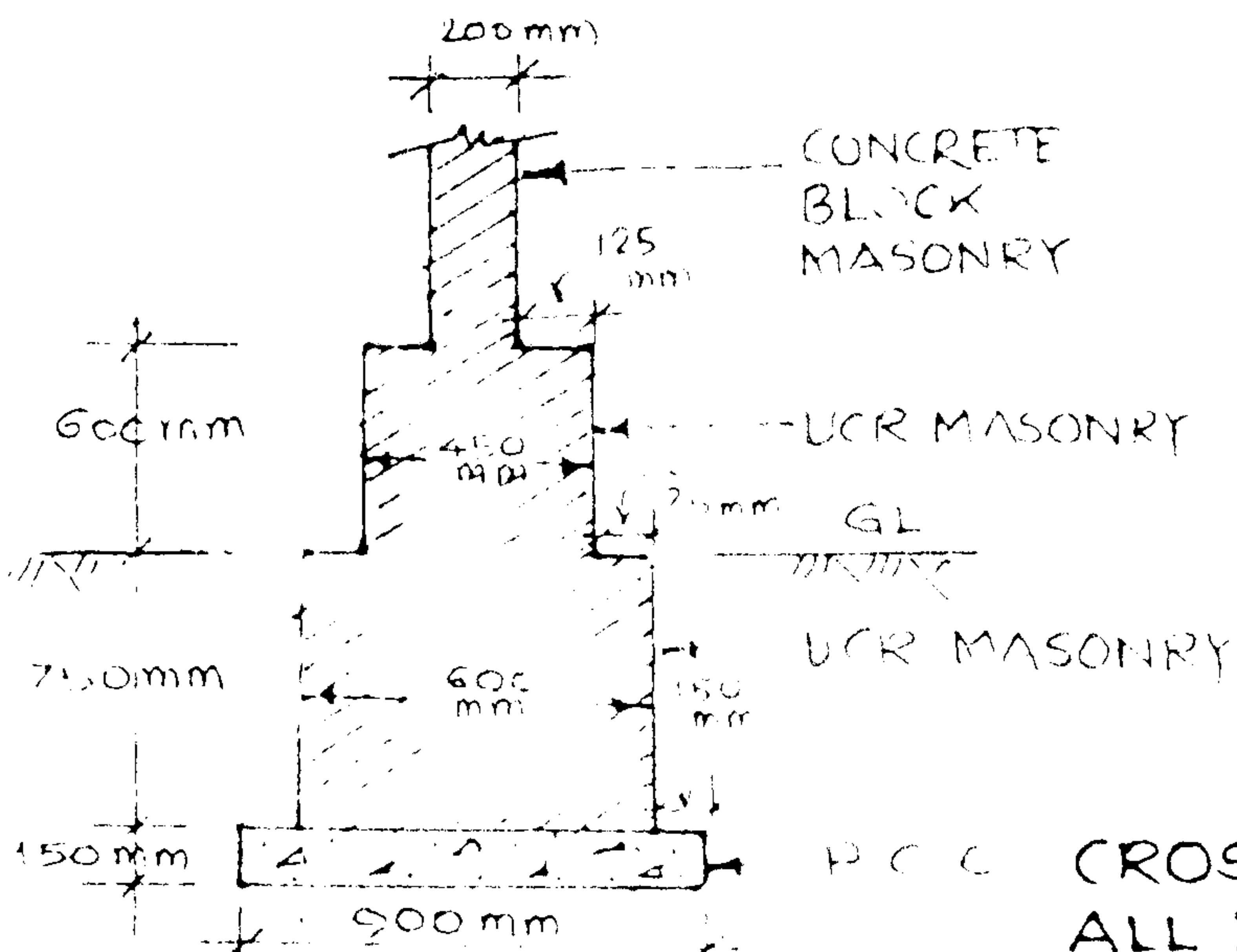


FIG. - NOT TO SCALE

PLAN

NOTE:

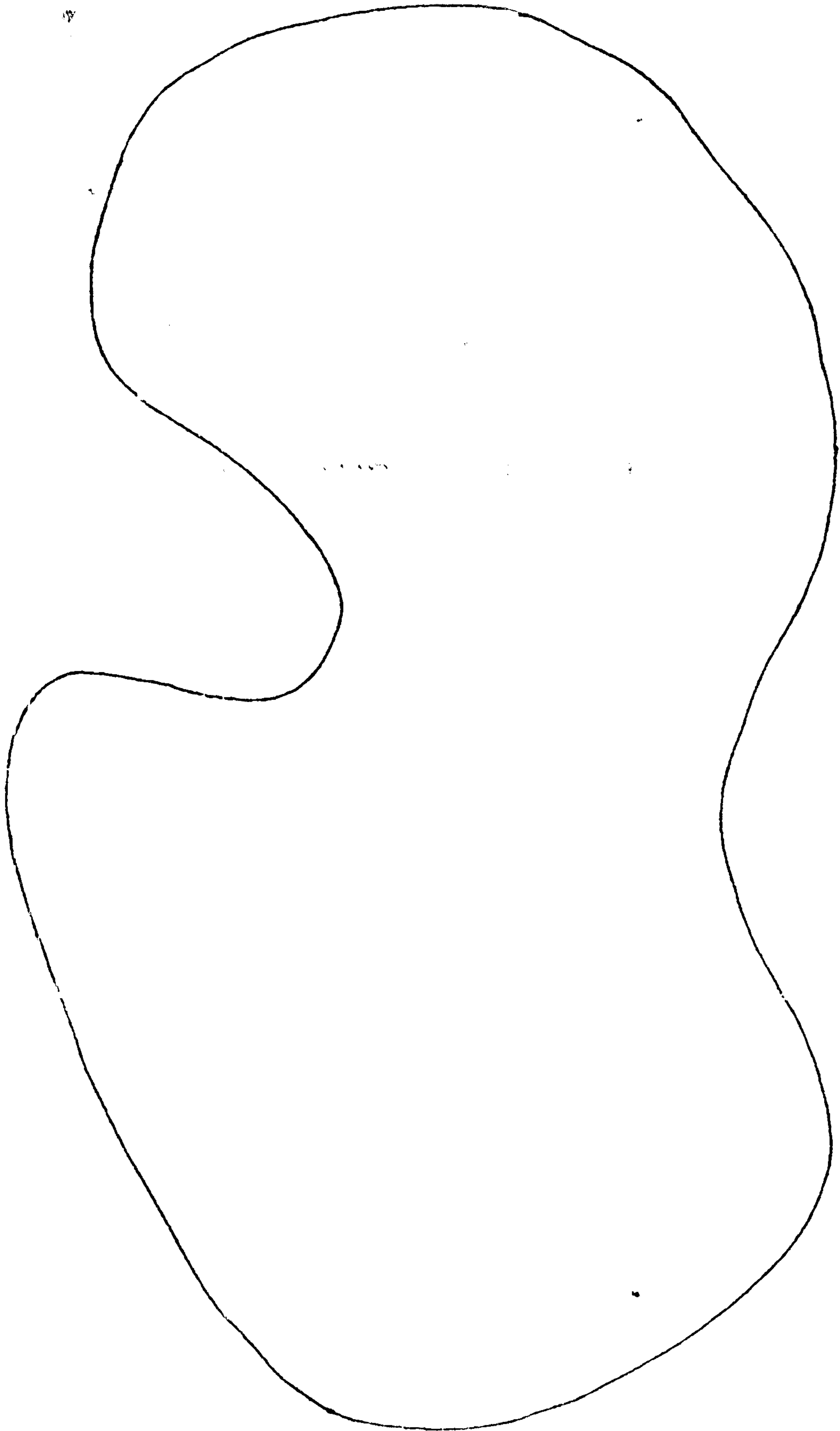
- 1) ROOM DIMENSIONS ARE CLEAR INSIDE IN m
- 2) ALL THE WALLS ARE OF SAME CROSS SECTION
- 3) STEPS RISE = 150 mm
TREAD = 250 mm



CROSS SECTION OF WALLS
ALL DIMENSIONS IN mm

SUB: PRACTICAL AND ORAL TEST IN
SURVEYING AND SETTING OUT.

FIG. Q.No. 3



**MAHARASHTRA JEEVAN PRADHIKARAN
MAHARASHTRA ENVIRONMENTAL ENGINEERING
TRAINING & RESEARCH ACADEMY, NASHIK**

**Professional Examination of Asstt.Engineer- II /
Sectional Engineer / Jr.Engineer
October 2012**

Subject :- Practical & Oral Test Surveying and Setting out (Civil)

Date :- 6/10/2012

Time :- 8.00 onwards

Marks :- 100

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- Note :-
- (1) All questions are compulsory.
 - (2) Use of calculator is allowed.
 - (3) Make suitable assumption of necessary.
-

Question No.1 Line out (50)

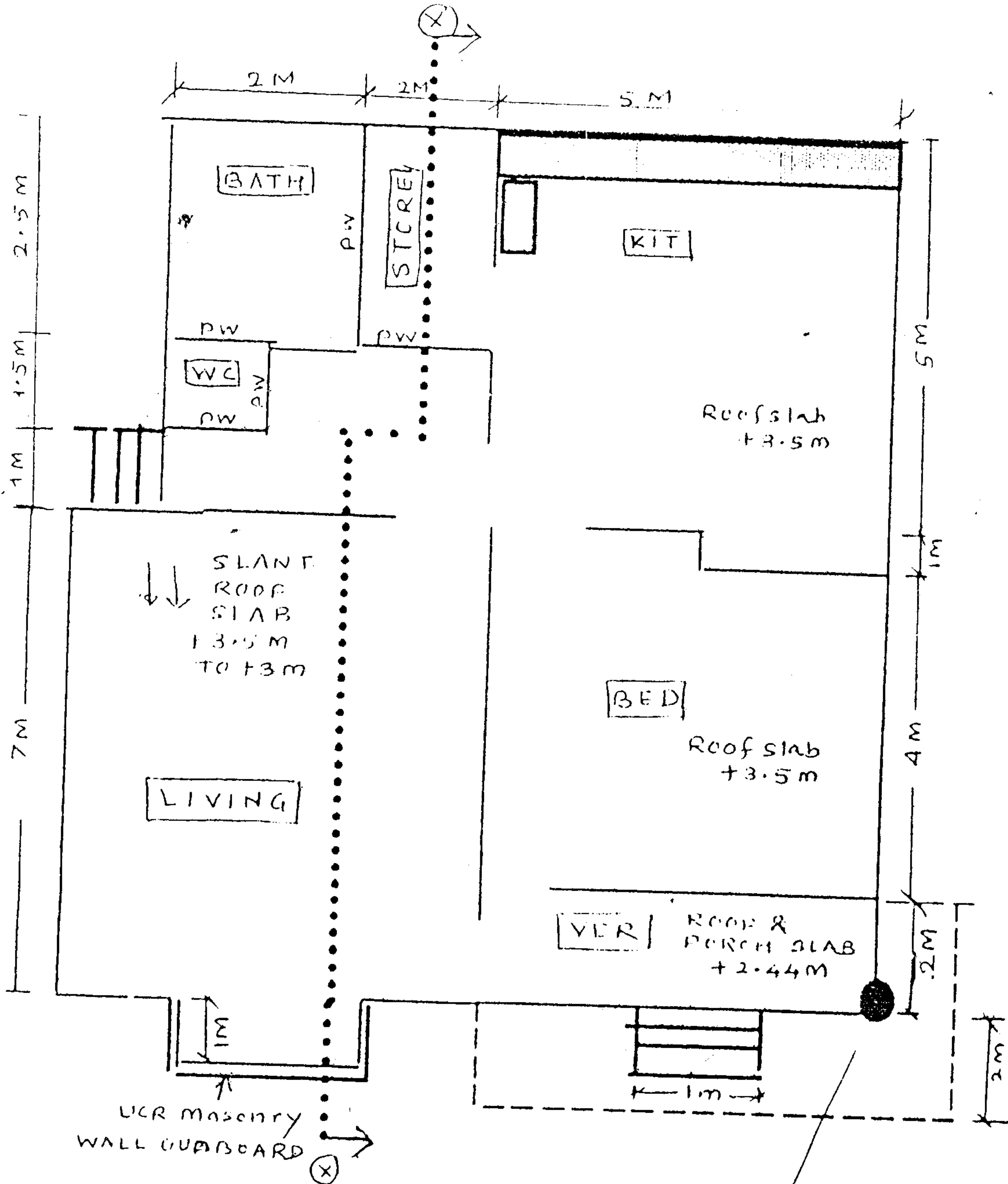
Prepare a full dimensional foundation plan of the structure as per line plan and other data given. Plot the same on ground. Dimensions for checking accuracy of Foundation plan shall be workout and shown on foundation plan clearly.

Question No.2 Find out the R.Ls of points A.B.C.D. and E marked on site by using Levelling instrument provided to you. Use rise and fall method or height of collimation method. Enter all readings in field book form. Adopt value of TBM as 100.00 (TBM will be shown by the Examiner) (30)

Question No.3 Oral Test (20)

Answer the Question orally as asked by the Examiner on Survey work, S&M instruments, toposheets & other etc.

Question No. 4

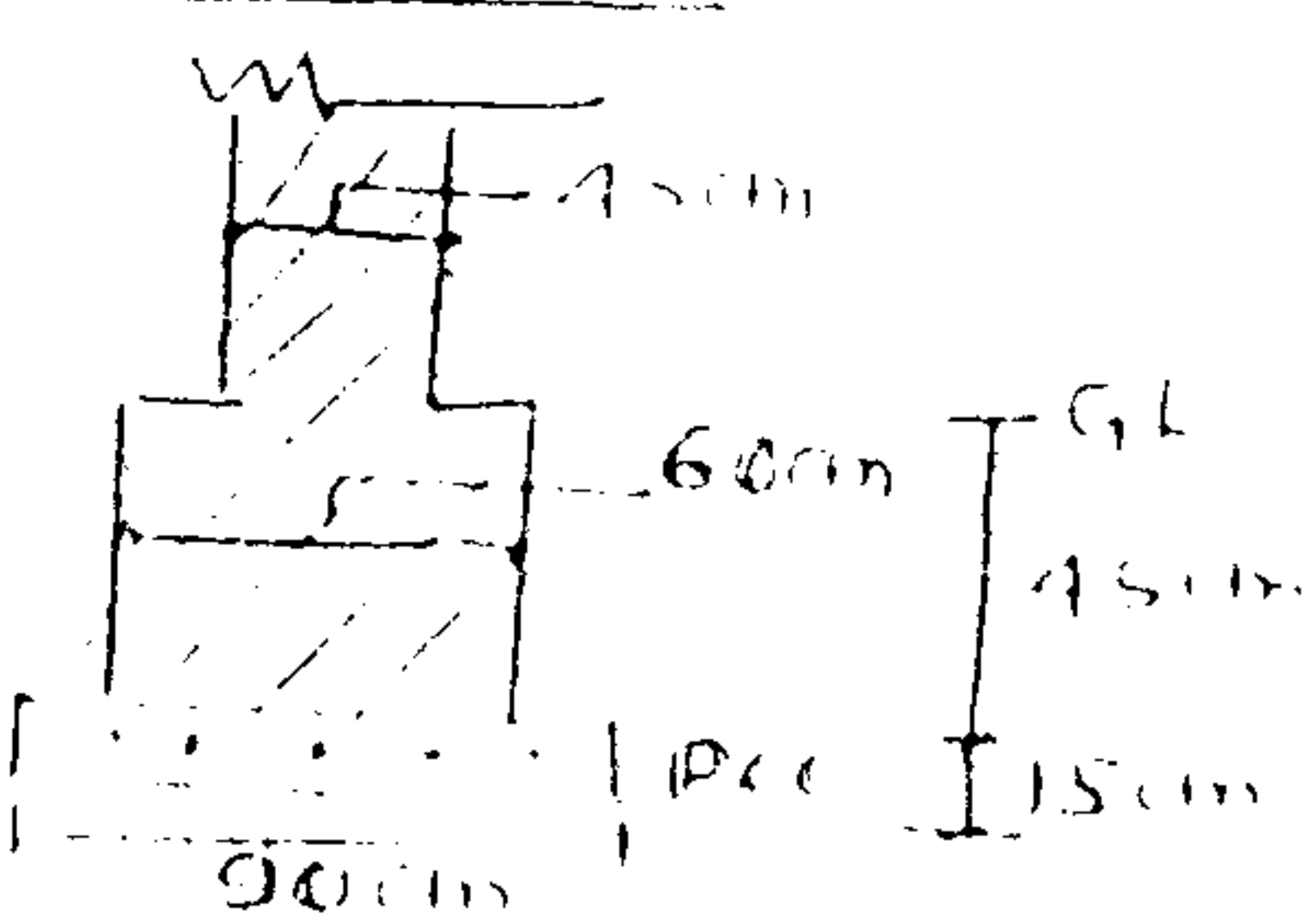


PW = PARTITION WALL
 RISE = 15 CM TRADE = 25 CM

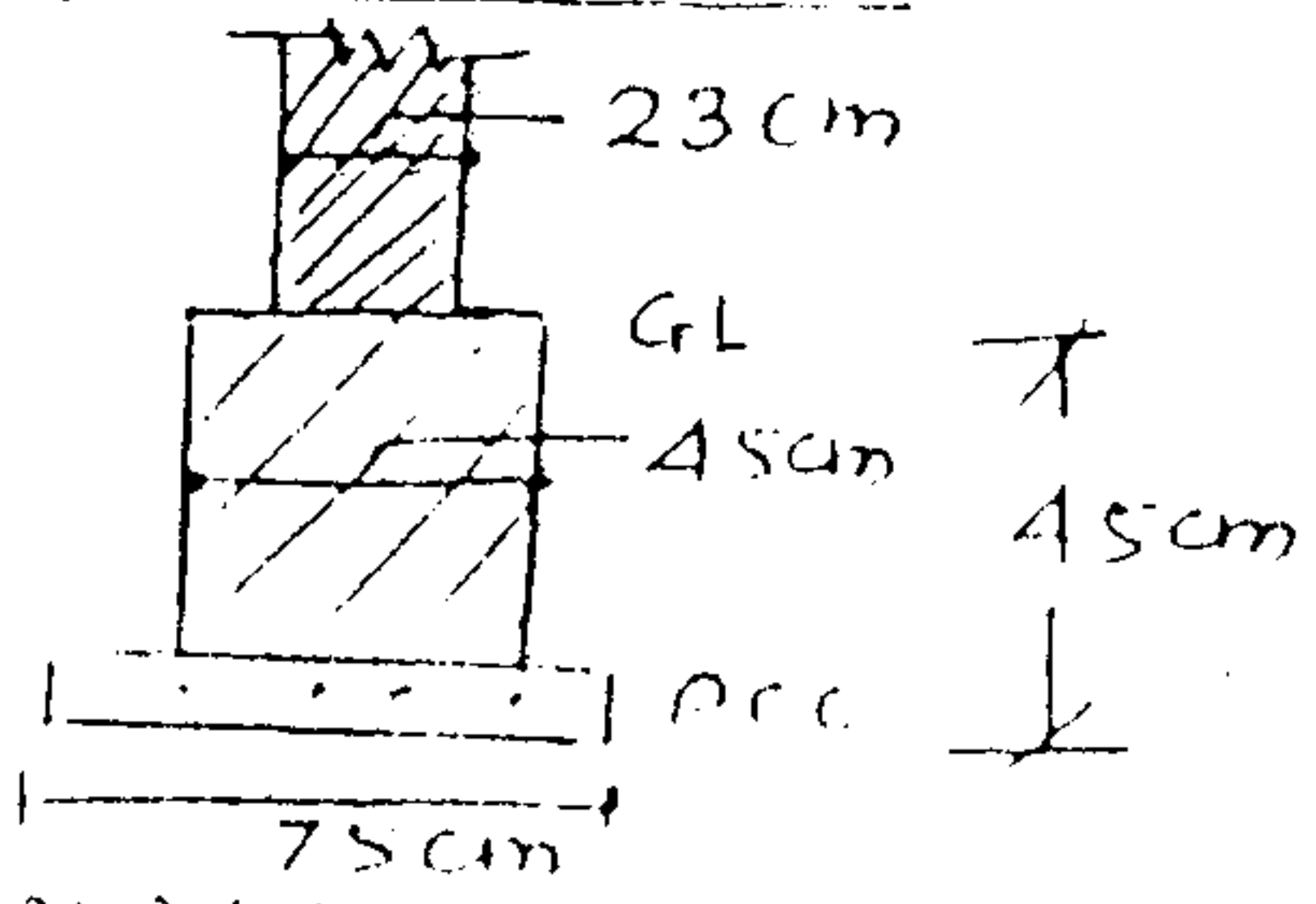
Circular pillar
 40cm DIA WITH
 PEDESTAL 45x45cm
 UPTO GL
 FOOTING 1m x 1m
 PCC 1.3m x 1.3m

FOUNDATION DETAILS

FOR UCR WALL



FOR BRICK WALL



FOR FOUNDATION FOR PARTITION WALL

MAHARASHTRA JEEVAN PRADHIKARAN

Examination conducted by

Maharashtra Environmental Engineering Training & Research Academy
(MEETRA), Nashik.

Professional Examination of Asstt. Engineer-II / Sectional Engineer / Jr. Engineer

October 2013

Subject :- Practical & Oral test of surveying & setting out (Civil)

Date :- 25/10/2013

Time :- 08.00 to Onwards

Marks :- 100

Note :- (1) All Questions are compulsory.

(2) Use of Calculator, set-square, mini drafter, T-square are allowed.

(3) Marks are reserved in Each questions for clear sketches good hand writing and neatness in general.

(4) Figure in right hand side bracket indicate total marks.

Que. No. 1. Find out the R.L. of points A,B,C,D & E mark on site by using... (50)

Levelling instruments provided to you, use rise and fall method. Enter all reading in the field book. Adopt value of TBM as 100.00 M.
(TBM will be shown by the examiner)

Que. No. 2. Line out. (30)

Prepare a full dimensional foundation plan of structure as per line plan and other data given mark the same on the ground. Diminutions for checking accuracy for foundation plan shall be worked out & shown on foundation plan clearly.

Que. No. 3. Oral Test (20)

Answer the Question orally as asked by the Examiner on Survey work, S&M instruments, toposheets & other etc.

SUB:- PRACTICAL & ORAL TEST IN SURVEYING AND SETTING OUT

FIG. Q. No. 2 - 2.

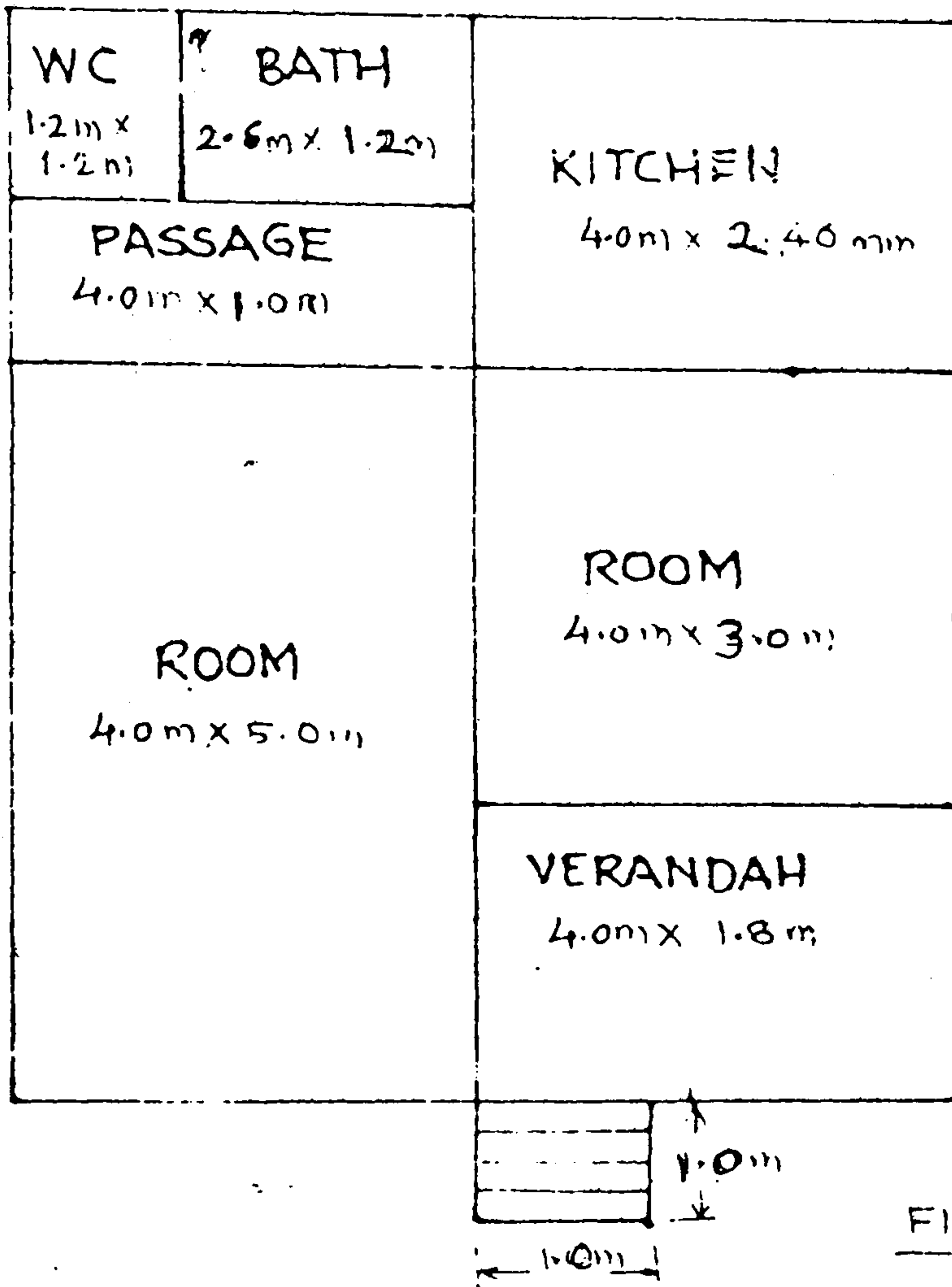
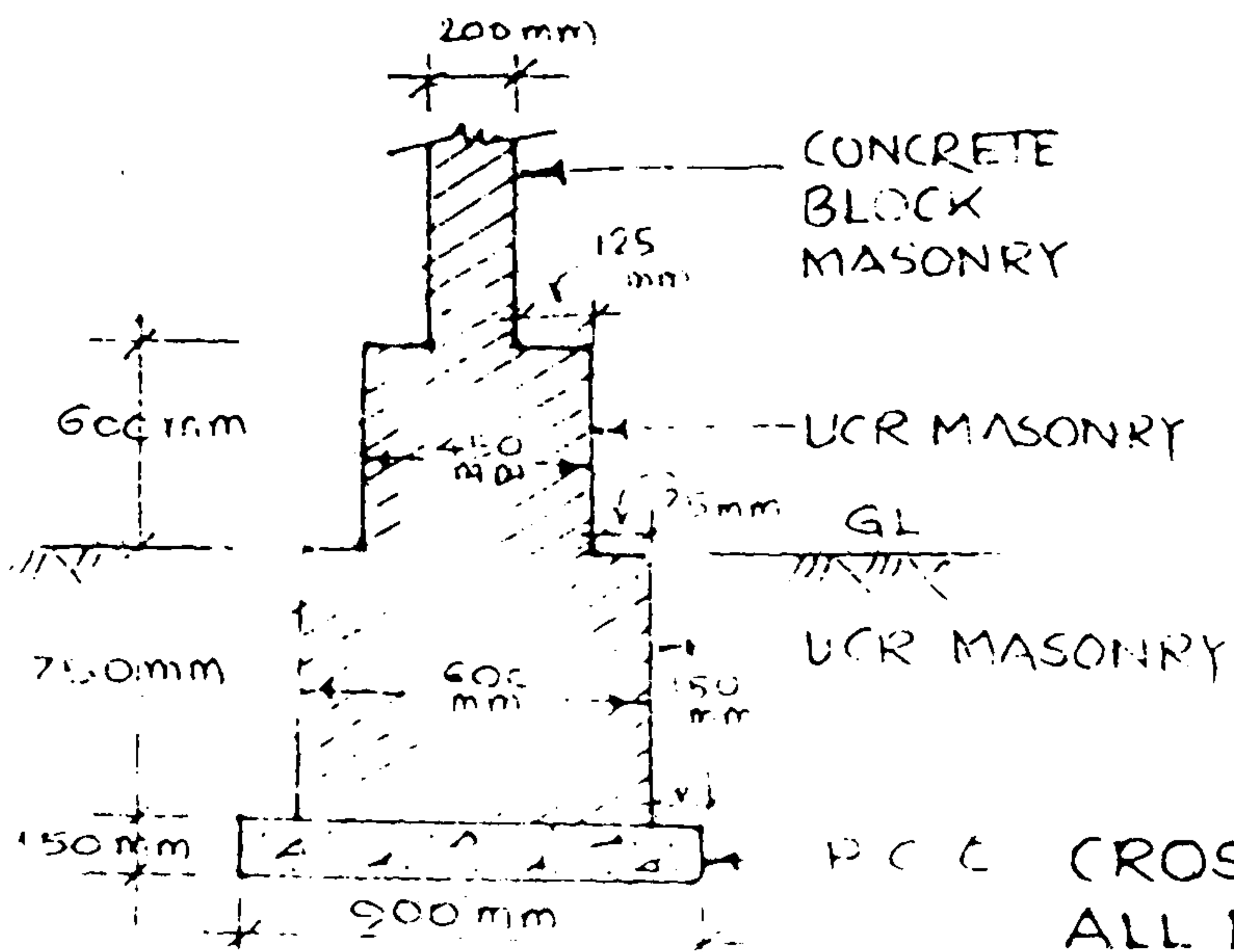


FIG. - NOT TO SCALE

PLAN

NOTE -

- 1) ROOM DIMENSIONS ARE CLEAR INSIDE IN m
- 2) ALL THE WALLS ARE OF SAME CROSS SECTION
- 3) STEPS RISE = 150 mm
TREAD = 250 mm



PCC CROSS SECTION OF WALLS
ALL DIMENSIONS IN mm

MAHARASHTRA JEEVAN PRADHIKARAN
Examination-conducted by
Maharashtra Environmental Engineering Training & Research Academy
(MEETRA), Nashik
**Professional Examination of Asstt. Engineer-II/Sectional Engineer/
Jr. Engineer/Technical Assistant (Civil)**
November 2014

Subject :- Practical Examination

Date :- 14/11/2014

Time :- 8.00 onwards

Marks :- 100

Note :- 1) All questions Compulsory.

2) Use of calculator, Log, table are allowed.

3) Figure in bracket on right hand side indicate total marks.

4) Make suitable assumptions where necessary & state them.

5) Use of mobile, laptop & tab are not allowed.

Que.No.1. Find out the R.Ls of points A.B.C.D. and E marked on site by using (30)
Leveling instrument provided to you. Use rise and fall method or
height of collimation method. Enter all readings in field book form. Adopt
value of TBM as 100.00 (TBM will be shown by the Examiner)

Que.No.2. Line Out (50)
Prepare a full dimensional foundation plan of the structure as per line plan
and other data given. Plot the same on ground. Dimensions for checking
accuracy of Foundation plan shall be workout and shown on foundation
plan clearly.

Que.No.3. Oral test (20)
Answer the Question orally as asked by the Examiner on Survey work,
S&M instruments, toposheets & other etc.

SUB:- PRACTICAL & ORAL TEST IN SURVEYING AND SETTING OUT

FIG. Q. No. e - 2.

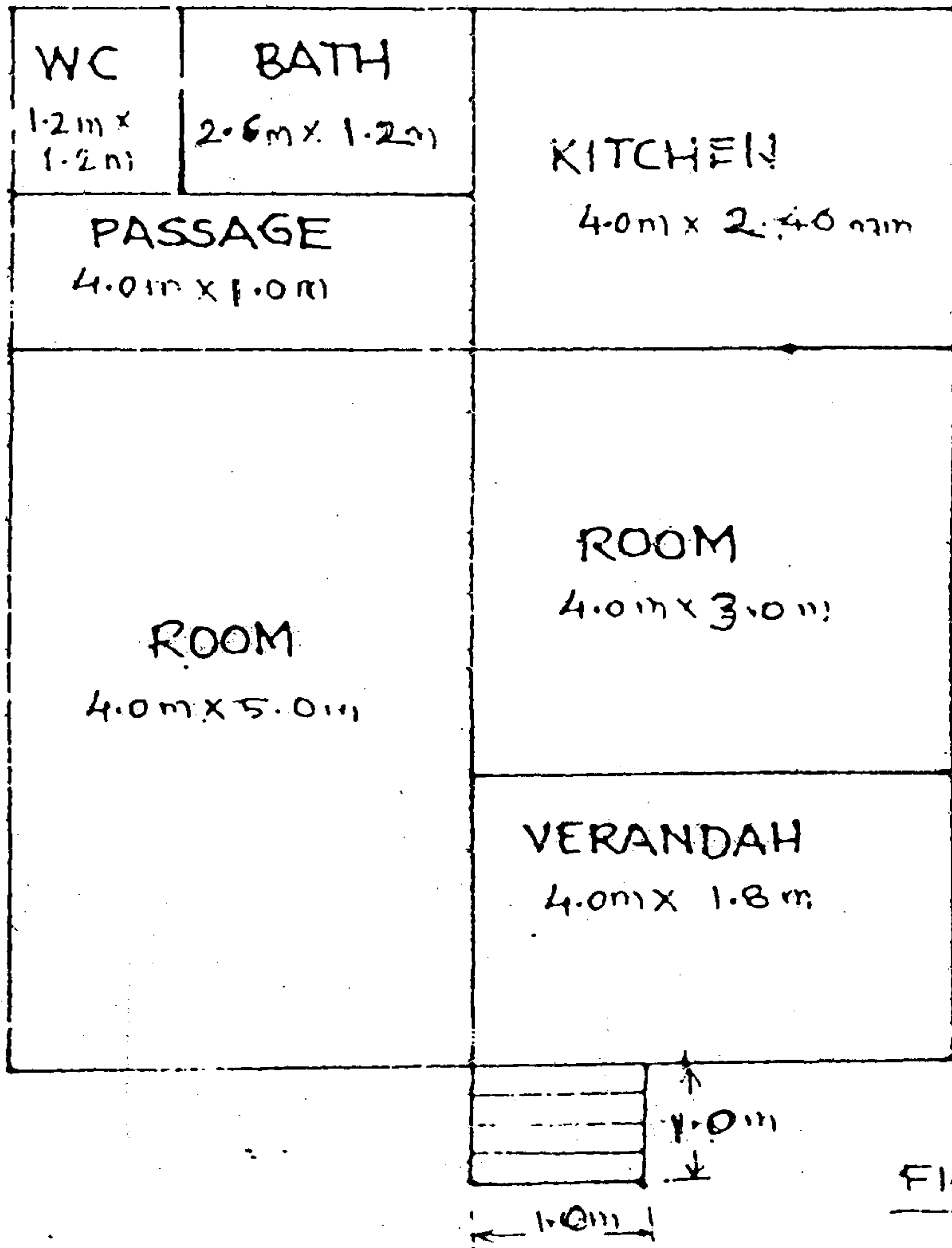
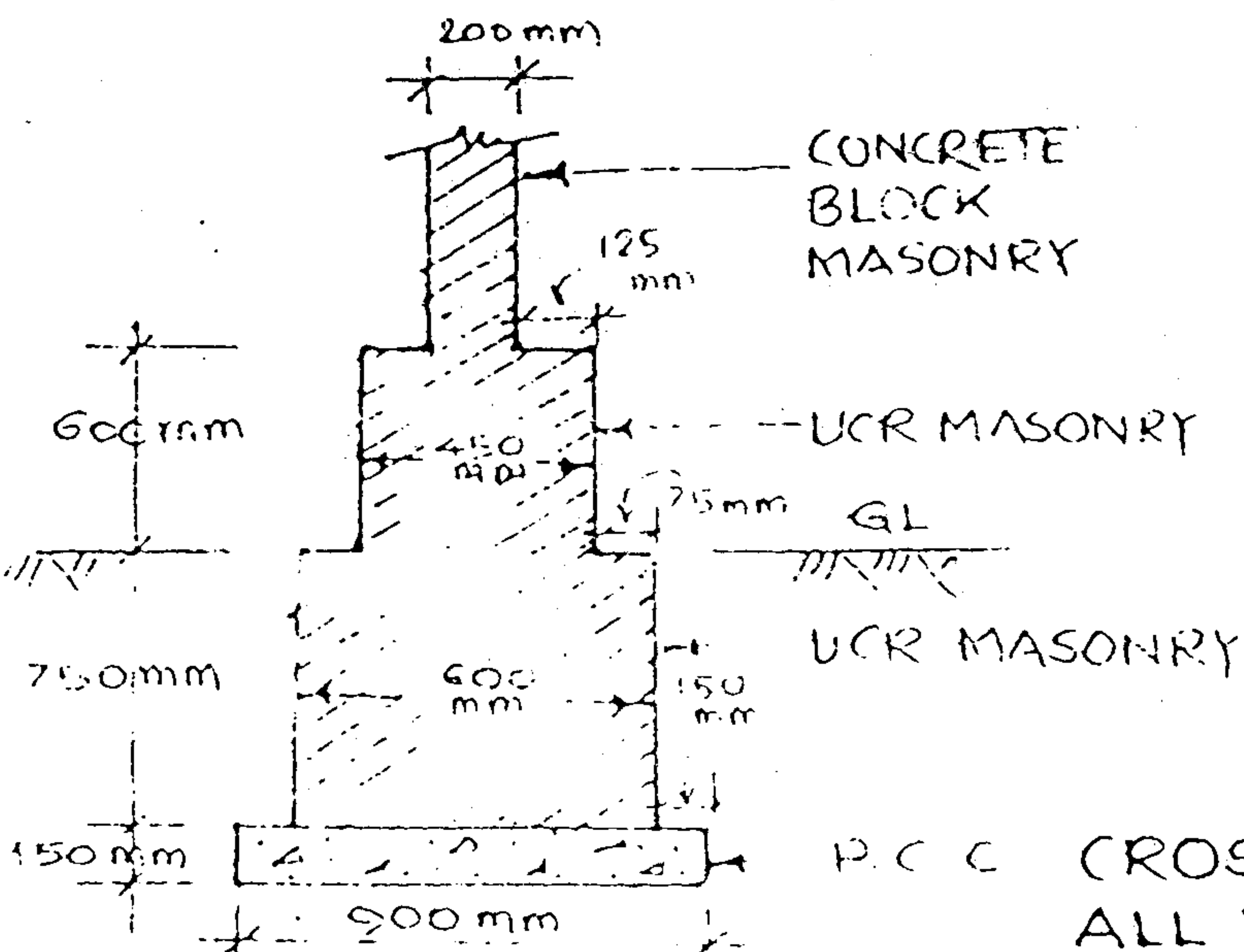


FIG. - NOT TO SCALE

PLAN

NOTE:

- 1) ROOM DIMENSIONS ARE CLEAR INSIDE IN m
- 2) ALL THE WALLS ARE OF SAME CROSS SECTION
- 3) STEPS RISE = 150 mm
TREAD = 250 mm



CROSS SECTION OF WALLS ALL DIMENSIONS IN mm

MAHARASHTRA JEEVAN PRADHIKARAN
Examination Conducted by
MAHARASHTRA ENVIRONMENTAL ENGINEERING TRAINING &
RESEARCH ACADEMY (MEETRA) NASHIK

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Professional Examination of AE-II / Sect. Engr. / Jr. Engr. / Technical Assistant
(Civil) October 2015

Subject- Practical Examination (Civil Engrs.)

Date-30/10/2015

Time- 8.00 - 16.00

Marks-100

- Note-**
- 1) All questions compulsory.
 - 2) Use of calculator, log table are allowed.
 - 3) Figure in bracket on the right hand side indicates total marks.
 - 4) Make suitable assumptions where necessary & state them.
 - 5) Use of Mobile, laptop & tablets are not allowed.
- =====

Question No.1

(40)

Carry out the survey from given T.B.M. & workout reduced levels for given points A,B,C,D & E by using rise & fall method of height of collimation method. Rule out the page of field book & mention all details apply field check by fly levelling survey & give usual checks assume TBM-100.00M.

Question No.2

(40)

Prepare & draw a detailed foundation plan of R.C.C. elevated service reservoir of 75000 lits cap. The line plan is enclosed the foundation plan may be set up on the ground. Prepare a line sketch plan showing an arrangement of by pass, overflow, workout, inlet & outlet pipes, overflow pipe should be connected to delivery line. Prepare the necessary valves where ever required.

Question No.3

(20)

Set up the THEODOLITE at point 'O' given to you & measure vertical angle AOB between A&B.

Ques No. 2 :- line diagram for foundation plan of ESR 75000

