

MODEL QUESTION PAPER-I

B.E DEGREE IV SEMESTER CIVIL ENGINEERING

SUBJECT: CV –46 BUILDING PLANNING AND DRAWING

Time: 4 Hours

Maximum marks: 100

- NOTE: 1. Question No.1 from section - I is compulsory and answer any two Questions from section-II
2. Assume any suitable data in case if not provided

SECTION –I

- Q .No. 1 Draw the plan, elevation, and sectional elevation for the line diagram of the building shown in figure No. 1 and also write the schedule of openings.
- | | | |
|--------------------------|-------|----------|
| (i) Plan of the building | ----- | 25 marks |
| (ii) Elevation | ----- | 15 marks |
| (iii) Section along AA | ----- | 15 marks |
| (iv) Schedule of opening | ----- | 05 marks |

SECTION –II

- Q .No. 1 a. Draw to a suitable scale, the section and elevation of a double shutter partly panelled and glazed door? (10 marks)
- b. Draw to a suitable scale plan and sectional elevation of a staircase for an office building with the following data:
- | | | |
|---------------------------------|------|-----------------|
| (i) Staircase room | ---- | 6000mm x 4500mm |
| (ii) Height between floors | --- | 3750mm |
| (iii) Thickness of a floor slab | --- | 150mm |
- (10 marks)
- Q .No. 2 .Prepare a bubble diagram (connectivity diagram) and develop a line diagram for canteen building of a college with student strength of 2000 and requirements for the building are:
- 1.Dinning area for boys and girls separately
 - 2.Dining area for staff
 - 3.Kitchen
 - 4.Stores for kitchen
 - 5.Utilities attached to kitchen
- (20 marks)
- Q .No. 3 .Prepare a bubble diagram (connectivity diagram) and develop a line diagram with suitable scale for P.W.D Sub- divisional office building .The requirements for the building are:
- 1.Entrance hall - 25m²
 - 2.Adminstrative office -60m²
 - 3.Assistant Engineer office – 20m²
 - 4.Technical Assistant room – 40m²
 - 5.Draughtsman’s room -- 40m²

6.Blueprint and record room - $30m^2$

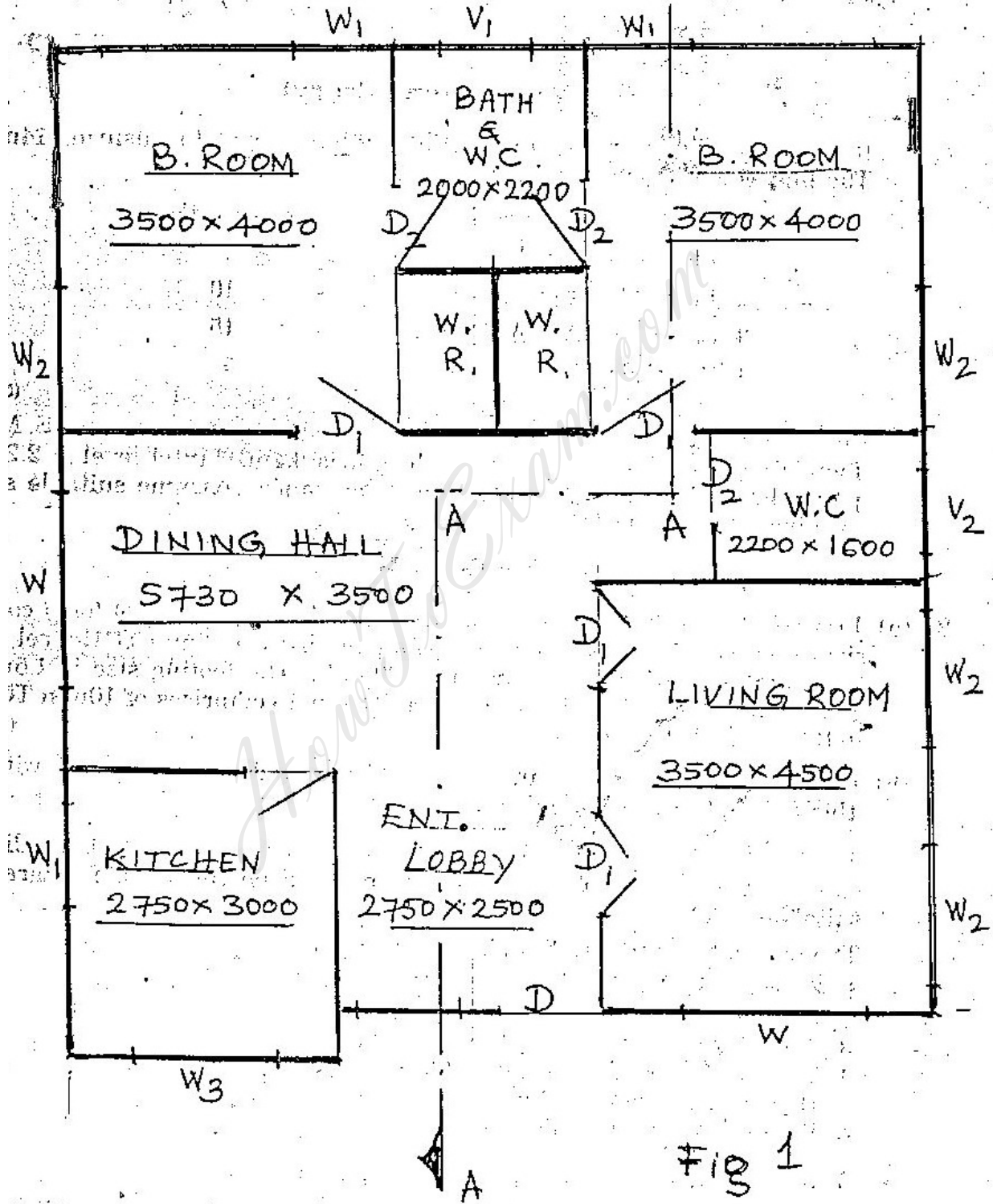
7.Store - $20m^2$

8.Sanitary units of Standard sizes

(20 marks)

Q.No. 4 The line diagram of a residential building is shown in fig.no.2 . Prepare water supply and sanitary layout plans with suitable notation.

(20 marks)



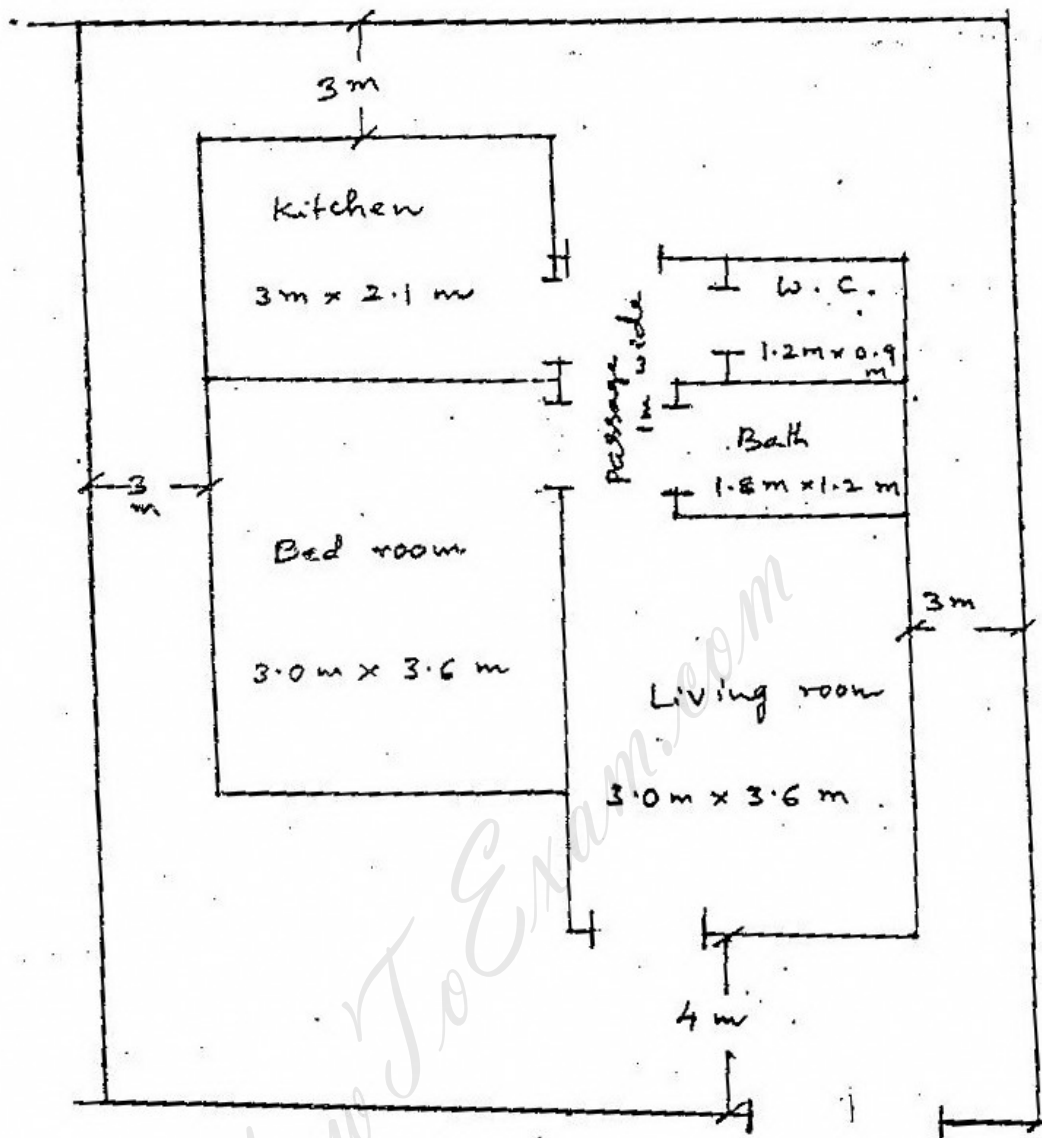


Fig. 2

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

MODEL QUESTION PAPER-II

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- NOTE: 1. Question No.1 from section - I is compulsory and answer any two Questions from section-II
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SECTION -I

Q .No. 1 The line diagram of the plan is as shown in fig no.1 .
Prepare to suitable scale the following working drawings

- 1.Plan ----- 25 marks
- 2.Elevation ----- 15 marks
- 3.Sectional elevation ----- 15 marks
- 4.Schedule of openings ---- 05 marks

Specifications The foundation and basement are of SS masonry in CM 1:6 and pointed with CM 1:4 .The foundation is 60cms wide and 90cms deep footing. The basement is 45 cms height and 45cms wide. The superstructure is brick masonry wall with CM 1:6. Provide suitable lintels and Chajja where ever necessary. The roof is RCC 10cms thick slab with clear headroom of 300cms.

SECTION –II

- Q .No. 1 a. Draw a section and plan of a RCC Doglegged stair for a public building. Floor to floor height is 360cms.Width of stairs is1.5m.Rise and tread are 15cms and 30cms respectively (10 marks)
- b. Prepare a working drawing for an isolated footing for a column of size 230mmx300m reinforced with 8nos of 12mm diameter HYSD bars together with 8mm dia HYSD bars in stirrups @200mmc/c.Footing size is 1.1m x1.4m with thickness of footing slab = 400mm. The mat compromises of 10mmdia HYSD bars @ 120mm c/c both ways.? (10 marks)

Q .No. 2 . Prepare a bubble diagram (connectivity diagram) and develop a line diagram for primary school building for first to seventh standard with student strength of 280 and requirements for the building are:

- 1.Classrooms for 40 students each
- 2.Headmaster' room
- 3.Office room
- 4.Sports room
- 5.Teacher's room
- 6.Library
7. Toilets to be provided separately for boys and girls

(20marks)

Q.No.3 . Prepare a bubble diagram (connectivity diagram) and develop a line diagram for Taluka headquarters building with the following requirements:

- 1.Manager's room
- 2.Public waiting hall
- 3.Office room
- 4.Record room
- 5.Store room
- 6.Meeting hall
- 7.Recreation/Tiffin room
- 8.Sanitary units

(20marks)

Q.No. 4 Sketch sanitary and electrical layout details for a residential building as shown with line diagram in figure no.2. (20marks)

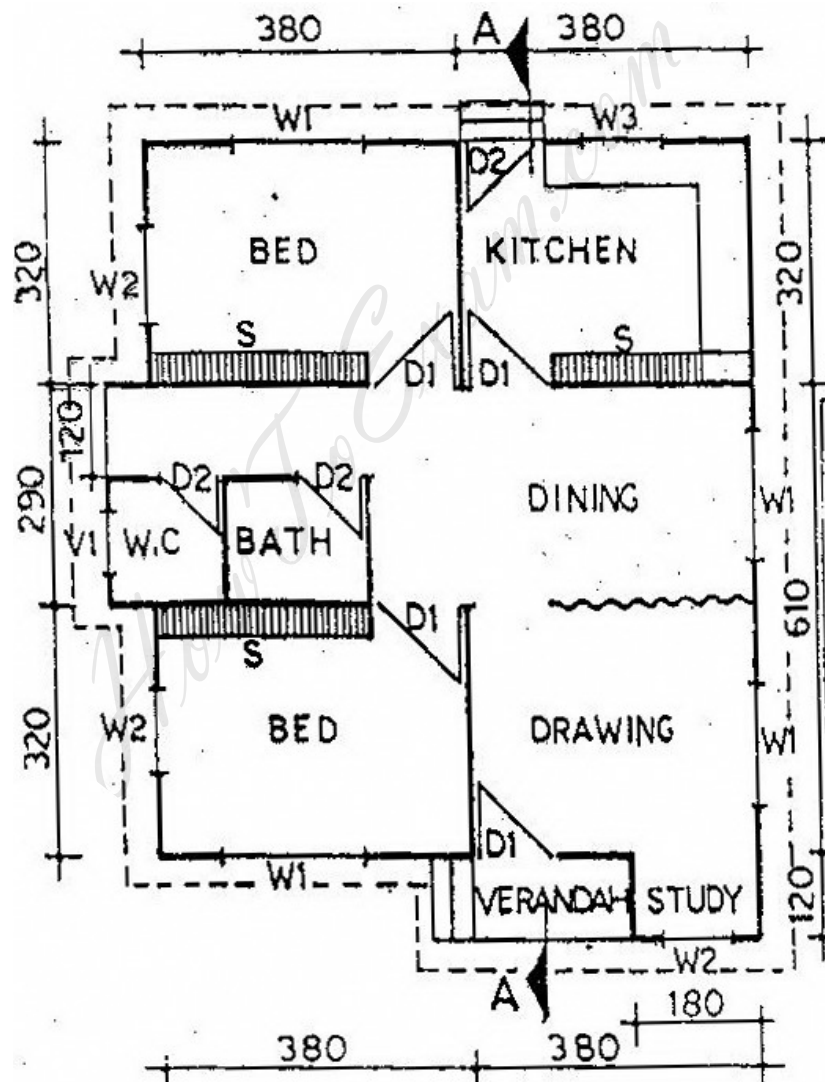
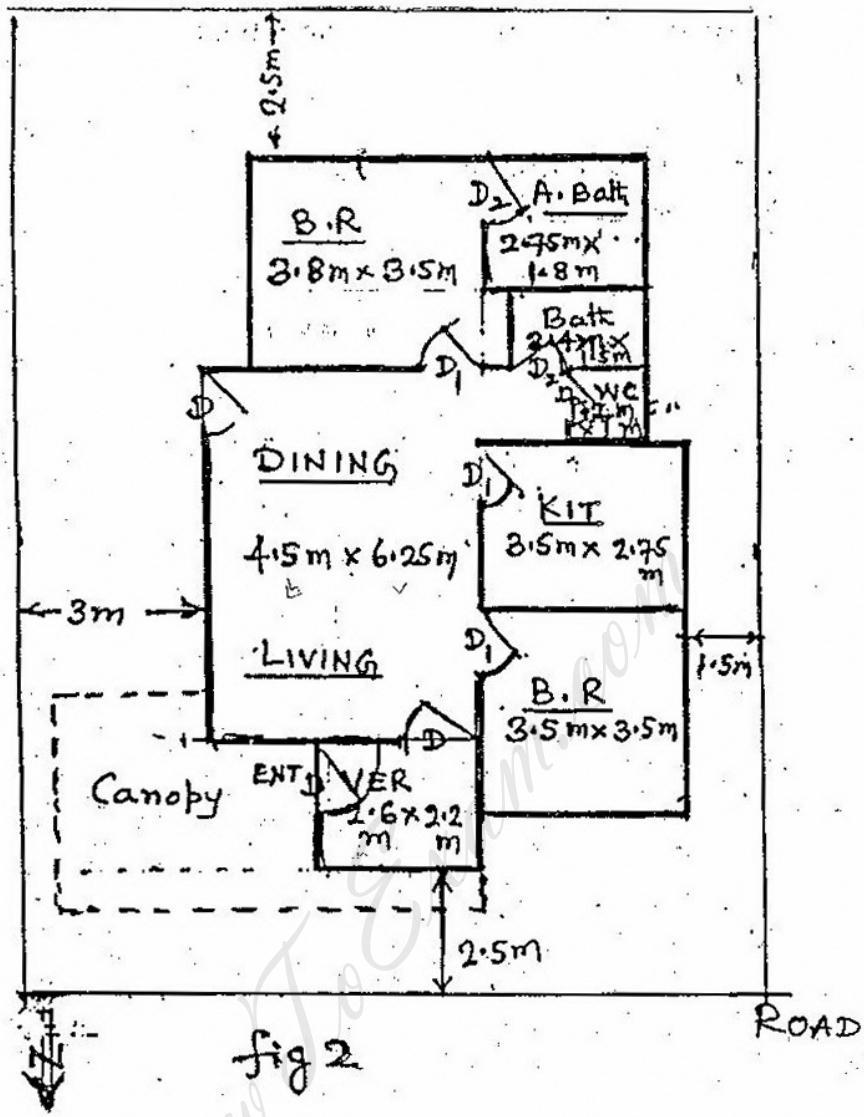


Fig - (B)



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