



Reg. No. :

Name :

Third Semester B.Tech. Degree Examination, January 2015
(2008 Scheme)

08.306 – ENGINEERING DRAWING

Time : 4 Hours

Max. Marks : 100

Part – A : Machine Drawing (MPU)

Time : 2 Hours

Max. Marks : 50

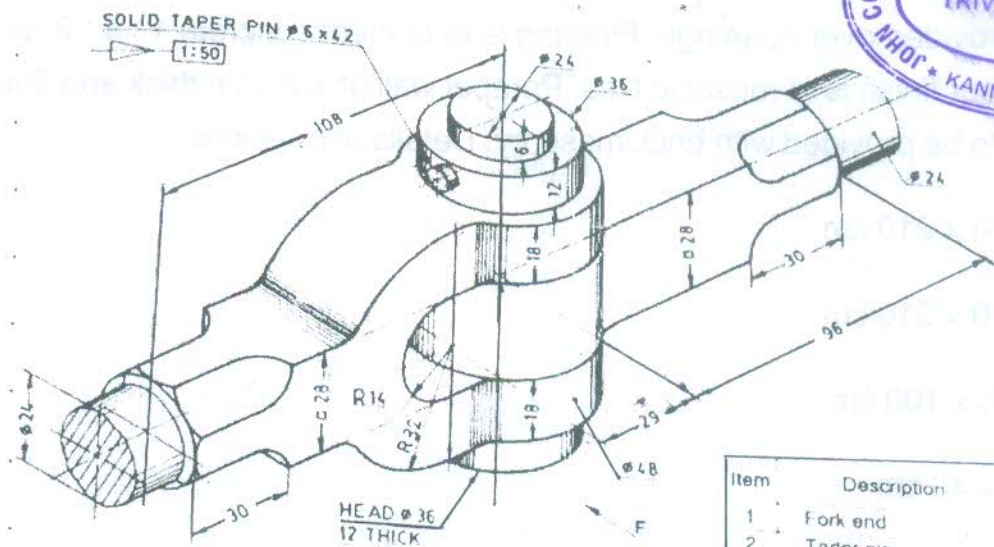
PART – A

1. Answer **any two** questions : (2x10=20 Marks)

- i) Draw to full scale, two orthographic views of a triple riveted lap joint using rivets in zigzag arrangement. Take $t = 12$ mm and $D = 20$ mm.
- ii) Sketch three different types of lock nuts.
- iii) Draw the elevation of a Rag foundation bolt for diameter 30 mm and indicate standard proportions on the drawing.

2. Figure shows the isometric view of a knuckle joint. Draw the following views :

- i) Elevation ii) Side view from left iii) top view.



Item	Description	Qty	Material
1	Fork end	1	M S
2	Taper pin	1	M S
3	Collar	1	M S
4	Pin	1	M S
5	Eye end	1	M S

**Part – B : Civil Engg. Drawing and Estimation**

Time : 2 Hours

Max. Marks : 50

- Instructions :** 1) Answer **one** question **each** from Part I and Part II.
2) Assume any **missing** data suitably.

PART – I

1. The line sketch shows the plan of a (Fig. 1) kindergarten school. Draw the

- | | |
|------------------------|----|
| i) Plan at sill level. | 15 |
| ii) Section on AA. | 10 |
| iii) Front Elevation. | 5 |

Specifications :

Foundation for all walls to be taken to a depth of 800 mm below ground level. Foundation is of RR is cm 1 : 6, 700 mm wide. Basement of RR in cm 1 : 6, 400 mm wide and 500 mm high. Superstructure is of brick in cm 1 : 5, 200 mm thick and 3.1 m high. Roofins is of RCC slab 100 mm thick RCC lintels of 150 mm thick are to be provided over openings. Flooring is of cement concrete 1 : 4 : 8, 80 mm thick, floor finish is of mosacic tiles. Parapet wall of 100 mm thick and 600 mm high is to be provided with brick masonry. Details of openings :

$D_1 - 120 \times 210$ cm

$D_2 - 100 \times 210$ cm

W – 150 × 100 cm

V – 80 × 40 cm

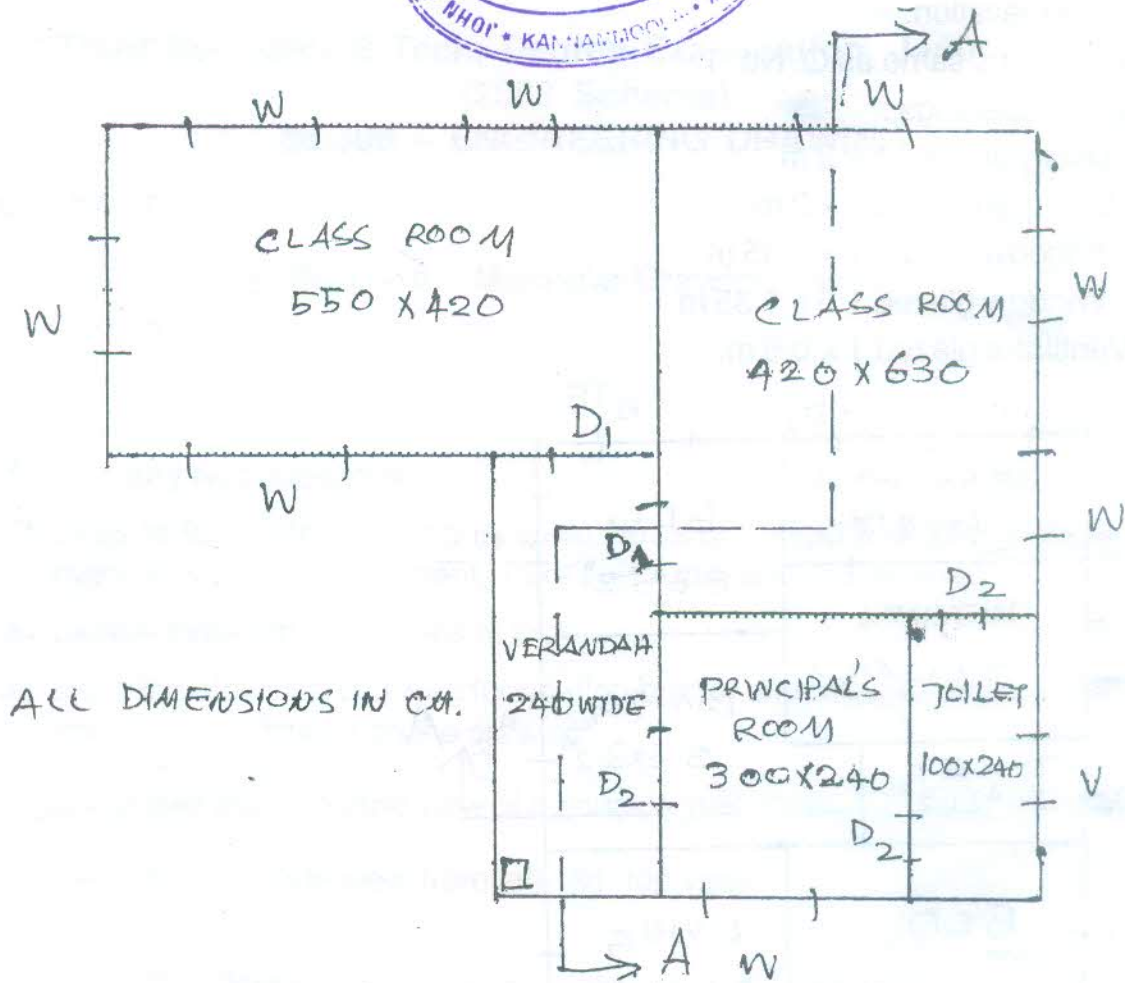


Fig. 1



2. Fig. 2 shows the line sketch of a residence. Draw the :

- i) Plan at sill level
- ii) Section on AA
- iii) Front Elevation.

Specifications same as Q. No. 1.

Details of openings :

D_1 – Door panelled 1×2 m

D_2 – Door panelled 0.8×2 m

W_1 – Window glazed 1×1.35 m

W_2 – Window glazed 1.5×1.35 m

V – Ventilator glazed 1×0.6 m.

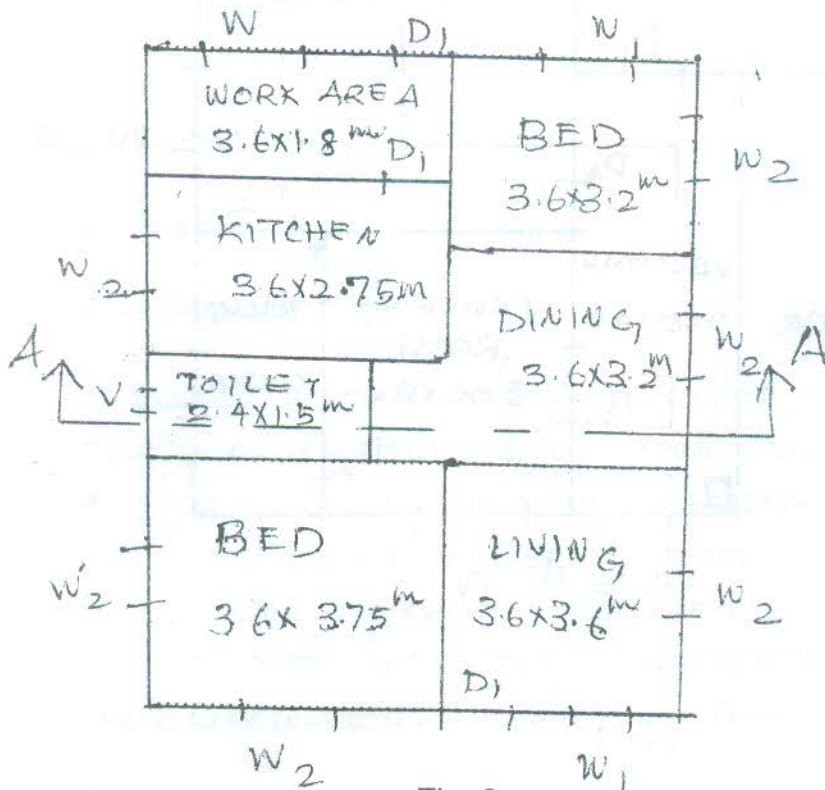


Fig. 2

PART – II

3. Compute the quantities of the items of work given below for Fig. 1

- a) Brick work for superstructure including parapet.
- b) Earth work Excavation.

4. Estimate the quantities for the following items of work for Fig. 2

- a) Plastering
- b) Flooring with PCC 1 : 4 : 8.

(1x20=20 Marks)