

EXPERIMENT NO: 12

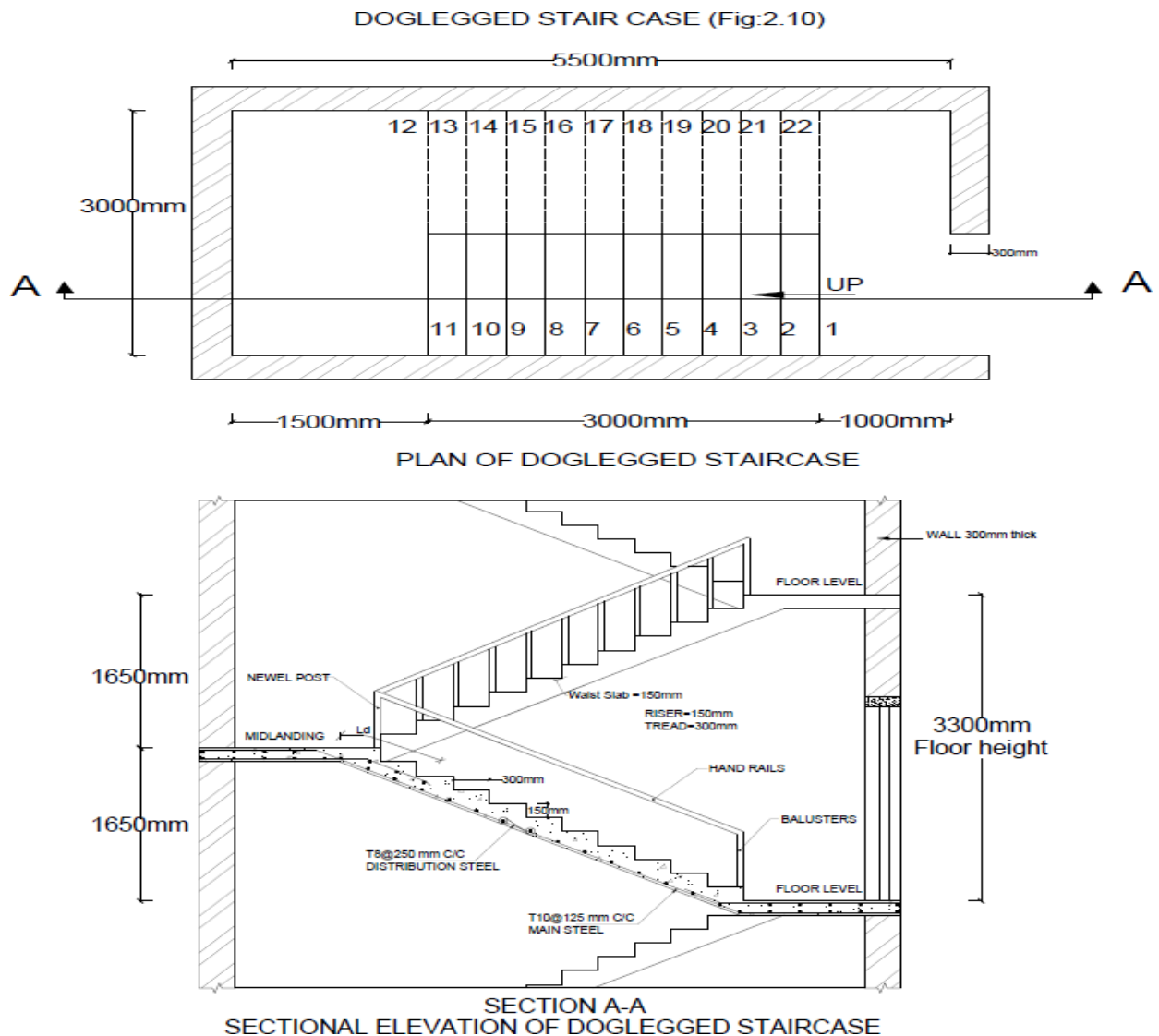
Exercise: 12.1

Drawing different types of staircases – Dog legged, Open well – plan and section

Draw plan and sectional elevation of **RCC dog legged staircase** for an office building which measures 3m x 5.5m. The vertical distance between the floor is 3.3m (including landing).

Thickness of the floor slab is 150mm. Provide steps with tread of 300mm and rise of 150mm. Thickness of waist slab and landing slab is 150mm. Width of stair is 1.5m.

Reinforcement details: main steel: 10 ϕ @125 c/c spacing and distribution: 8 ϕ @ 250 c/c spacing.



Exercise: 12.2

Draw plan and sectional elevation of an **open newel staircase** with a rectangular well for an office building with the following data:

Inside dimensions of staircase = 4.5m x 5.4m.

Height between the floors is 3.6m.

Thickness of the floor slab and landing slab is 150mm. Width of landing=1.5m.

Width of stair = 1.5m.

Tread=300mm, riser=150mm.

Waist slab thickness = 150mm.

Reinforcement details: Main steel: 12 ϕ @ 150 c/c spacing and Distribution: 8 ϕ @ 250 c/c spacing.

