

Subject: Structural Steel and Timber Design

Code: SST260S

Worksheet 1: Introduction to Engineering Design and Loads

Q.1 What do you understand by Engineering Design?

Q.2 What are different types of loads considered in the design of structure? Name each of them.

Q.3 Explain the permanent load (q_k) and Variable load (Q_k) as per SANS 10160-2.

Q.4 Calculate the total self-weight of 100mm x 100mm x 100 mm nominal reinforced concrete cube?

Q.5 A one-way floor of a residential hostel building with the dimension 2.25m x 5m is supported on two-beam (Fig 1). The floor occupancy is a room of hostel building. The thickness of the 2% reinforced concrete floor is 150 mm with floor finishing of 25mm thick teak wood. Calculate the Ultimate load on the beam and draw the shear force and bending moment diagram.
(Use SANS 10160-2 for imposed load based on its subcategory.)

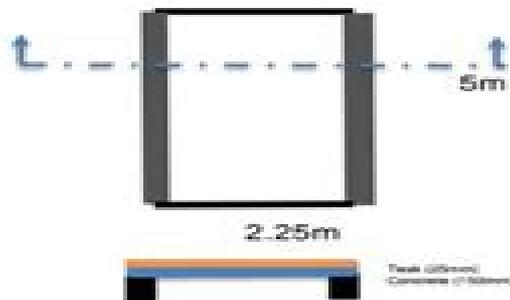


Figure 1

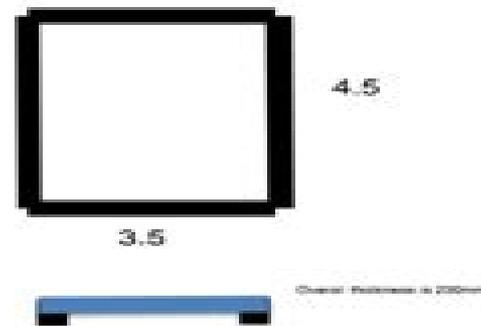


Figure 2

Q.6. Calculate Service load on floor of the Library building with a dimension 6.5m x 4.5m is supported on all its four sides with a beam. The floor is made up of reinforced concrete (2% reinforcement) and floor finish of 30 mm granite. The floor occupancy level is for a stack for books in the library. The sides of the slab are continuously fixed. Find out the equivalent load on all sides beams. The overall thickness of the floor is 230 mm.
(Use SANS 10160-2 for imposed load based on its subcategory.)

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