

### **Assignment**

1. Design a two way reinforcement concrete floor slab for a room of size 4m x 5m subjected to a live load of 3kN/m<sup>2</sup>. The load due to floor finish is 1kN/m<sup>2</sup> and partition is 2kN/m<sup>2</sup>. Use M20 and Fe415 as materials.
2. Design the reinforcement required for a two way slab simply supported on all the four sides with corners free to lift or the slabs do not having adequate provisions to prevent lifting of corners. The clear dimension of the room is 5m x 5m. It is supported on 230mm thick wall. Live load on slab is 1.5kN/m<sup>2</sup>. Consider other dead loads also. Use M20 and Fe415 as materials.