

## Assignment/Quiz (SEP/2020)

**Subject:** Quantity survey & Estimation

**Duration:** 4-hours

**Instructor:** ENGR. IMTIAZ KHAN

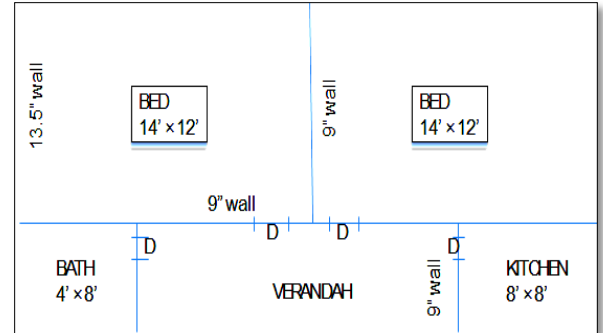
**Total Marks:** 50

**Note:** Attempt all questions. Manage your time properly.

Q.No. (01)

(10)

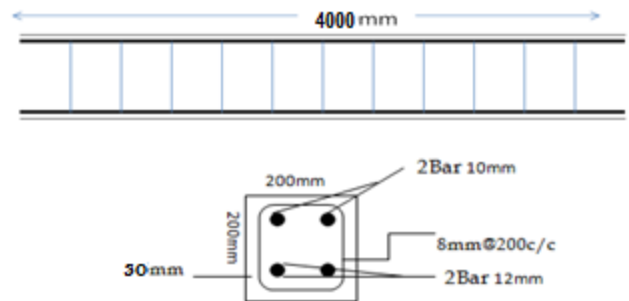
- i. Prepare rough estimate of a building from given line plan, External walls are 13.5" & internal walls 9". Cost of construction is Rs. 300/SFT. Cost of water supply and sanitary may be considered as 10%, where as for electric supply and gas supply is as 10% and 5% respectively. 3% of total cost may be added for contingencies?
- ii. Also calculate the internal plaster area of the Rooms, bath and kitchen if the surrounding walls are of 3m height and door size is 2m x 1m?



Q.No. (02)

(10)

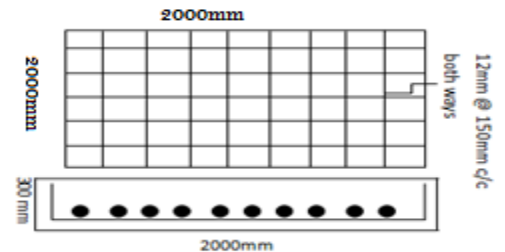
- i. Calculate the Bar Bending Schedule of a given Beam length 4000mm with provided details? Clear cover is 30mm also Consider 5% of wastage/additional weight of the steel? (Results shall be defined in a systematic tabular form).



Q.No. (03)

(10)

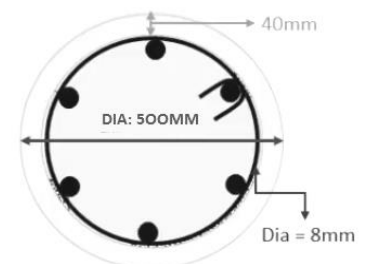
- i. Calculate the Bar Bending Schedule of a given column footing with the provided details? Clear-Cover for the pad footing is 50mm? Consider 5% of wastage/additional weight of the steel? (Results shall be defined in a systematic tabular form).



Q.No. (04)

(10)

- i. Calculate the cutting length of the given circular column stirrup if the Diameter of the column is 500mm?
- ii. Value of a plot is Rs. 350,000 and residential building newly constructed over it with a cost of Rs. 420,000 including all services. Determine its rent at the rate of 6% on land value and 8% on construction cost?



**Note:** If required, assume any other necessary data by yourself.

- i. Define the main types of Alternative dispute resolution (ADR) along with Arbitration Act 1996 section 1, section 9 and section 18? What are the advantage and disadvantages of ADR in terms of construction project?

**Good luck!**