

Total No. of Question : [4]

Registration No. :

Programme Name : Bachelor of Civil Engineering
Regular T.Y.B.Tech. Sem. VI ESE May / June 2023
VI SEMESTER (2020 BATCH)
201CEL323-Quantity Surveying and Valuation(TH)

Duration : 2 Hours and 30 minutes.

Marks : 50

Instructions :

(Q1) All Questions are compulsory [20.0]

(1.1) Define Estimation and Explain the different types of estimates. [5.0]

OR

Write down the unit of measurement with reason in short as per the following:

i) Collapsible gate ii) Fabrication of steel truss. iii) Excavation in earthwork. iv) U.C.R. masonry. v) Window glazing

CO :- C323.1

Blooms Taxonomy :- Understand

(1.2) What are the specifications? Explain in brief its need to write detailed specifications. [5.0]

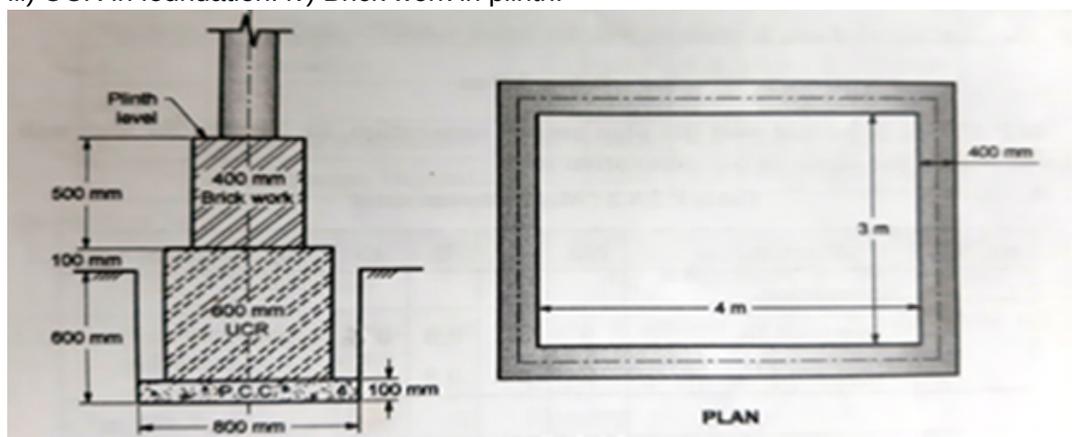
CO :- C323.2

Blooms Taxonomy :- Apply

(1.3) Work out the quantities of following items using Any Method. [10.0]

i) Earthwork in excavation. ii) PCC 1:4:8 in foundations.

iii) UCR in foundation. iv) Brick work in plinth.



CO :- C323.3

Blooms Taxonomy :- Apply

(Q2) All Questions are compulsory [10.0]

(2.1) Write a short note on bar bending schedule. [3.0]

CO :- C323.3

Blooms Taxonomy :- Apply

- (2.2) Work out the quantity of steel for the beam as shown in below: Consider a beam of [7.0] clear length of 4m, 300mm wide by 450mm depth. It consists of 2-12 diameter bars at top, and 2-16 diameter and 1 - 12 diameter bars at the bottom. Diameter of stirrup is 8mm spaced at 180mm center to center. Clear cover to reinforcement provided is 40mm.

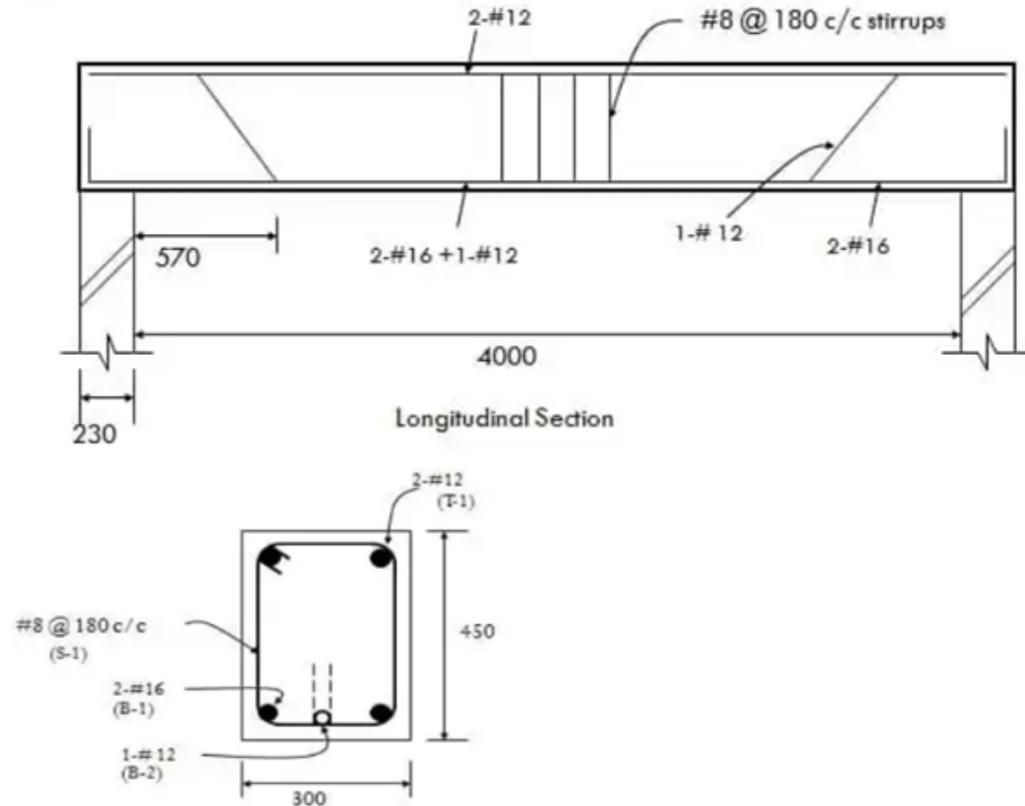


Fig: RCC Beam Cross-Section

CO :- C323.3

Blooms Taxonomy :- Apply

(Q3) All Questions are compulsory

[10.0]

- (3.1) Define price, cost and value.

[3.0]

CO :- C323.4

Blooms Taxonomy :- Apply

- (3.2) An RCC framed G+2 building is constructed on a plot having details: i) Plot of land 500 [7.0] Sq., Present rate is 3000/- per sq.m. ii) Net yield = 9% iii) B.U.A. is 350 sq.m/floor @ construction rate of 6500/sq.m iv) Life of building is 50 years v) Repair and maintenance @ 1/12th of gross rent. vi) Municipal tax @ 15 % vii) Management and miscellaneous charges @ 8% of gross rent. viii) Insurance premium @ 1% ix) Gross rent Rs.5 lac per annum. x) Compound interest on sinking fund @ 9 %. xi) Property taxes @ 5 % of gross rent. Work out the fair value of property.

CO :- C323.4

Blooms Taxonomy :- Apply

(Q4) Attempt any two out of three questions

[10.0]

(4.1) Enlist and Explain Rental methods of valuation.

[5.0]

CO :- C323.4

Blooms Taxonomy :- Apply

(4.2) Define Depreciation and obsolescence.

[5.0]

OR

Comparison between depreciation and obsolescence.

CO :- C323.4

Blooms Taxonomy :- Apply

(4.3) An Universal Testing Machine was purchased at Rs. 80,000. Assuming salvage value to be 10% after 10 years, Calculate Depreciation for each year up to 6 years only adopting by **Constant Percentage method..** [5.0]

CO :- C323.4

Blooms Taxonomy :- Apply
