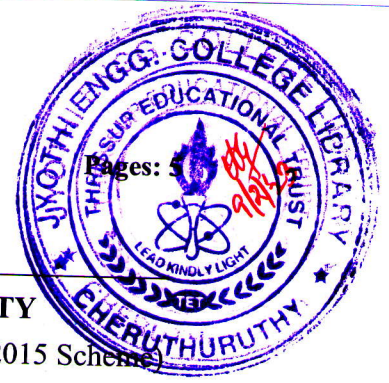


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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree (S, FE) Examination January 2023 (2015 Scheme)

Course Code: CE409

Course Name: QUANTITY SURVEYING AND VALUATION

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 10 marks.

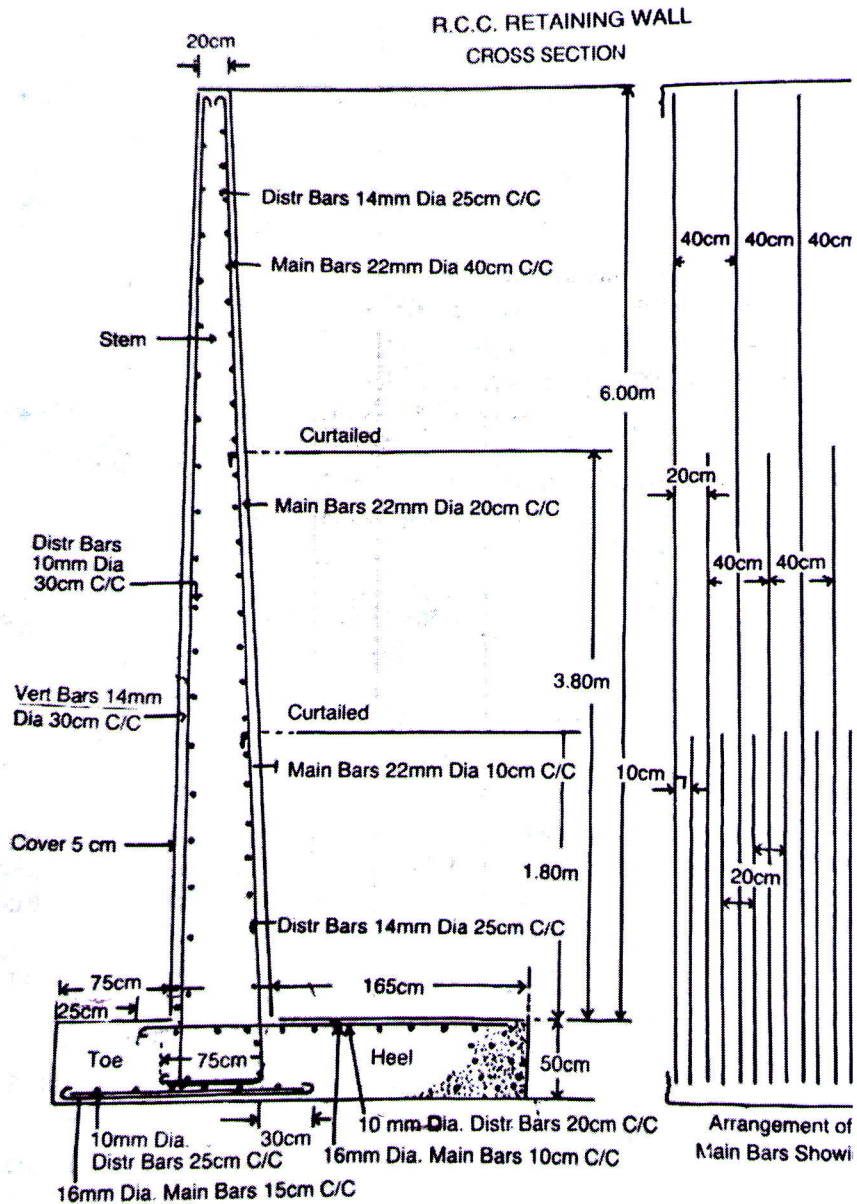
- | | | Marks |
|------|--|-------|
| 1 a) | Write the detailed specification of Damp proof course. | (10) |
| 2 a) | Explain general specification of a first-class building. | (10) |
| 3 a) | Analyse the rate for 1 cum cement concrete 1:2:4 | (10) |

| Description | Unit | Quantity | Rate | Amount |
|----------------------|------|----------|------|--------|
| For 1 m ³ | | | | |
| MATERIAL | | | | |
| Stone ballast | m3 | | 1350 | |
| Sand coarse | m3 | | 1350 | |
| cement | ton | | 4940 | |
| LABOUR | | | | |
| Mason | day | 0.1 | 709 | |
| Beldar | day | 1.63 | 558 | |
| Bhisti | day | 0.7 | 617 | |
| Concrete Mixer | day | 0.07 | 800 | |
| Vibrator | day | 0.07 | 370 | |

PART B

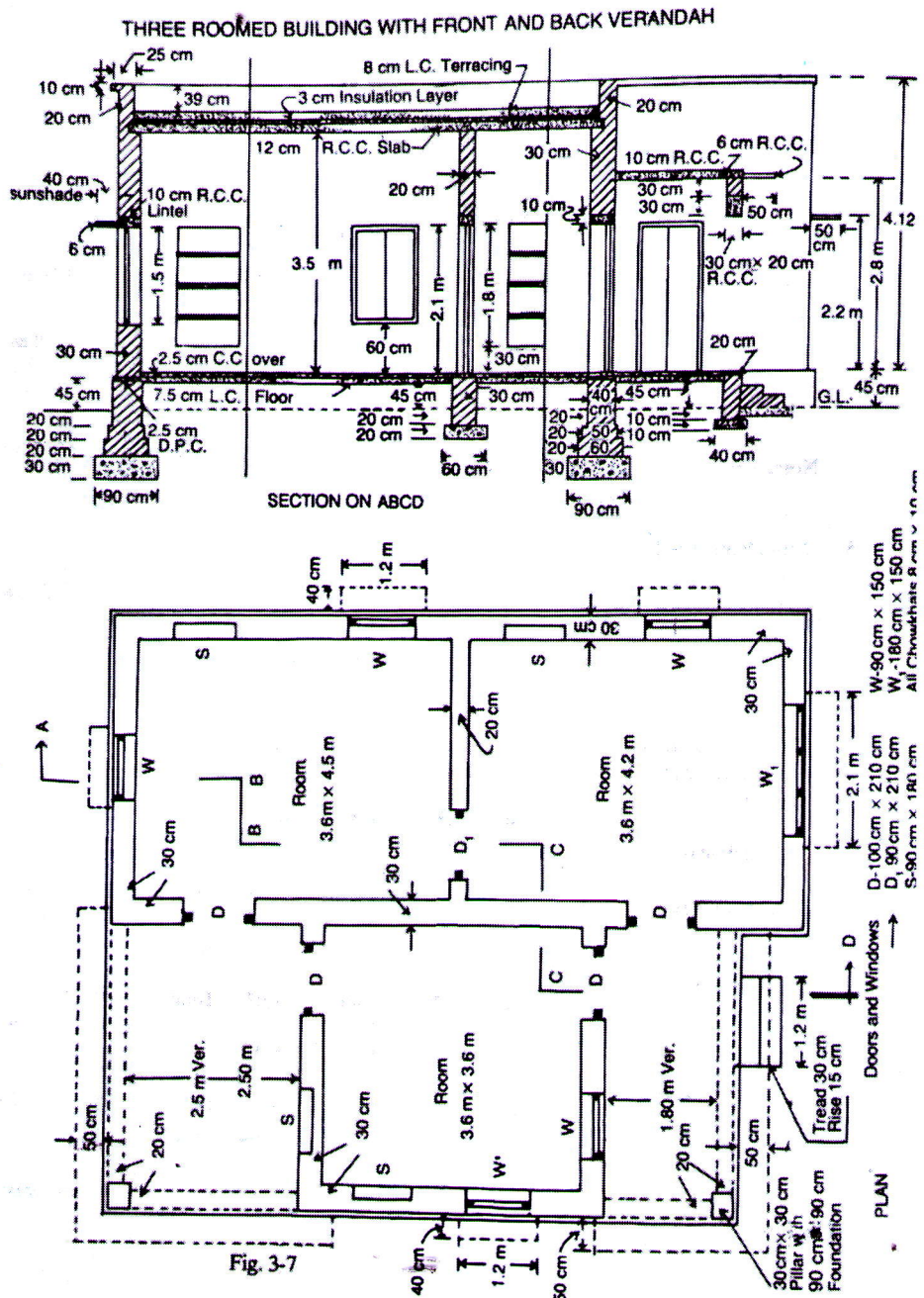
Answer any two full questions, each carries 25 marks.

- 4 a) Prepare bar bending schedule for the retaining wall of length 30m shown in the figure-1 and find out the total quantity of steel reinforcement required. (25)



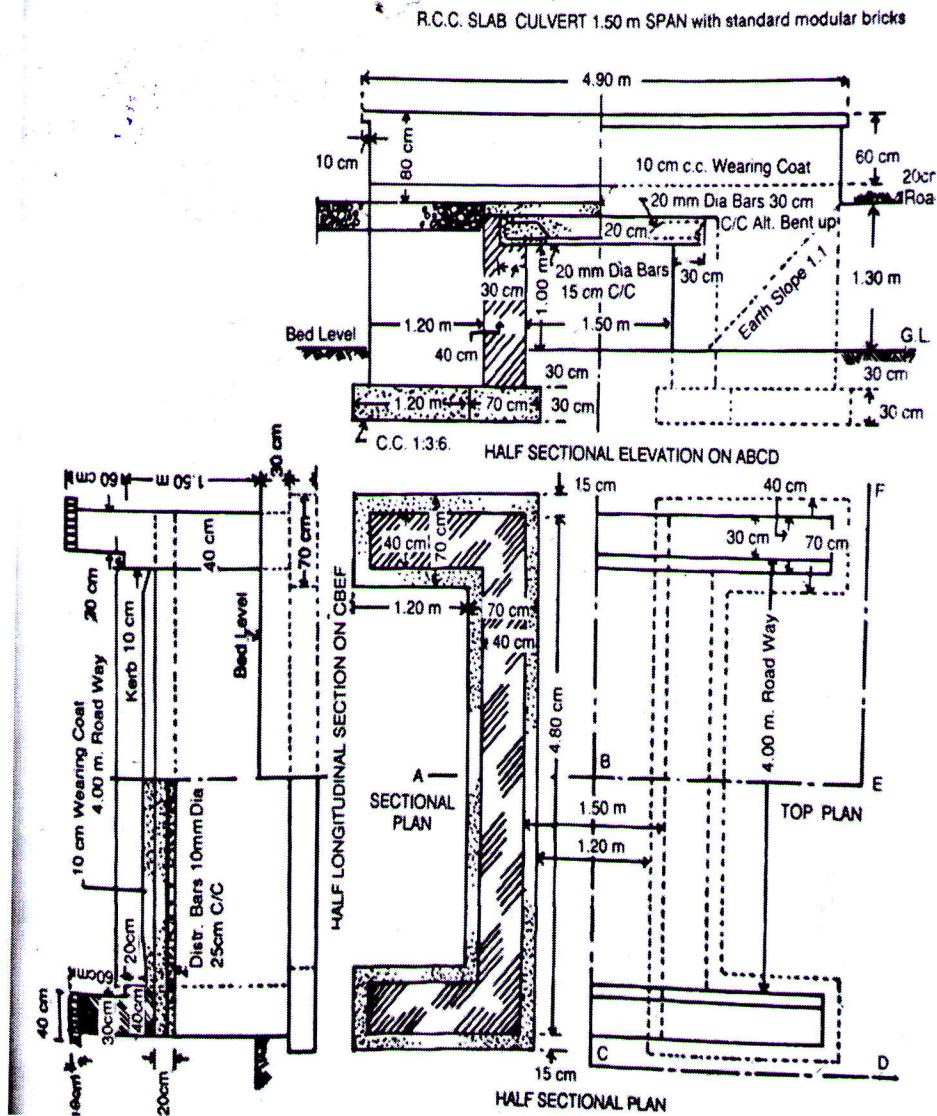
- 5 a) Prepare a detailed estimate of the following items (25)
- (a) Earth work excavation (b) Foundation and basement (c) Brick work for super structures, CM1:6 (d) RCC work for roof and sunshade

(Any missing data may be suitably assumed)



- 6 a) Prepare detailed estimate for slab culvert of 1.5m span and 4m road shown (25)
 in figure for the following items:
 i.) Earthwork, ii.)Cement concrete in foundation, iii.)Brickwork, iv.)RCC
 slab

(Foundation- Cement concrete 1:2:4, Brickwork in CM 1:4)



PART C

Answer any two full questions, each carries 15 marks.

- 7 a) A three storied building is standing on a plot of land measuring 800sq.m . (10)
 The plinth area of each storey is 400 sq.m. The building is of RCC framed structure and the future life may be taken as 70 years. The building fetches gross rent of Rs1500 per month. Workout the capitalised value of the property on the basis of 6% net yield. For sinking fund 3% compound interest may be assumed. Cost of land may be taken as 40 per sq m. Assume other data.



- b) Explain rent fixation
- 8 a) A coloniser intends to purchase a land of 100,000sqm area located in the suburb of a big city to develop in to plots of 700sq.m each after providing necessary roads and parks and other amenities. The current sale price of small plots in the neighbourhood is Rs.30 per sqm. The coloniser wants net profit of 20%. Find out the maximum price of land at which the coloniser may purchase the land?
- b) Differentiate scrap value and salvage value. (3)
- 9 a) Explain different methods of valuation. (12)
- b) How to determine the depreciation of property? (3)
