

(REVISED COURSE)

(4 Hours)

[Total Marks : 100]

- 1) Question No 1 is compulsory.
- (2) Attempt any four questions out of remaining six questions.
- (3) Assume suitable data if required and specify the same clearly.
- (4) Figures to the right indicate full marks.

Q.1)

Work out the quantities of the following items of work by referring Plan & Section Shown in Fig.1. ---20M.

- a) Excavation for foundation.
- b) P.C.C (1:4:8) in foundation.
- c) Ist Class brickwork in foundation in C.M (1:4).
- d) 12 mm.thick internal plaster in C.M (1:5)

Q.2)

- a) Prepare an approximate estimate for (G+4) R.C.C building. Bldg.consist of 4 flats on each floor & each flat has carpet area of 100 m². Assume area occupied by walls & columns etc.as 10% of built up area & area of circulation as 20% of built up Area. Assume cost of construction as Rs.12000/m². ----10M.
- b) Prepare abstract of cost for the items in Q.no.1. ----06M.
- c) What is Tender Notice? Mention main inclusions of it. ----04M.

Q.3)

- a) What is Contract? Explain the types of contract with their suitability. ---- 12M.
- b) Prepare rate analysis for Ist class brickwork in superstructure in C.M (1:4). ---- 08M.

Q.4)

- a) Work out the volume of earthwork for a portion of a road by using Prismoidal formula. ---- 12M:

- 1) Top width of formation = 10 m.
- 2) R.L of formation at zero chainage = 108.00 m.
- 3) Road has no slope in longitudinal direction.
- 4) Side slope: - 2:1 (Banking)
1.5:1 (Cutting)

Chainage	0	20	40	60	80	100	120
R.L of Gr.(m)	107.20	107.90	108.00	108.80	109.00	110.80	109.10

- b) Explain: - ---- 08M.
 - 1) Mass Haul Diagram.
 - 2) i) Trapezoidal formula. ii) Lead & lift

Q.5)

- a) Explain: - ---- 12M.
 - 1) Price variation clause
 - 2) Liquidated damages & unliquidated damages.
 - 3) Role of quantity surveyor.

- b) Explain Belting Method of valuation in detail. ----- 08M.

[TURN OVER

Q.6)

a) A building is newly constructed with cost of Rs.80 lakhs. over a plot of land Costing Rs.50Lakhs. Building consists of 10 flats of area $120M^2$. each.

Work out monthly standard rent / flat from the following data;-

- Expected net return from land & building = 6%.
- Rate of interest on Sinking fund = 7%
- Life of building = 55 years.
- Salvage value = 10% of cost of building.
- Repairs & maintenance cost = 7% of building cost.
- Taxes & other outgoings = 25% of gross rent.

--- 10M.

b) What is bar bending Schedule? Why it is prepared? Explain clearly along with its profarma.

--- 06M.

c) Explain:-

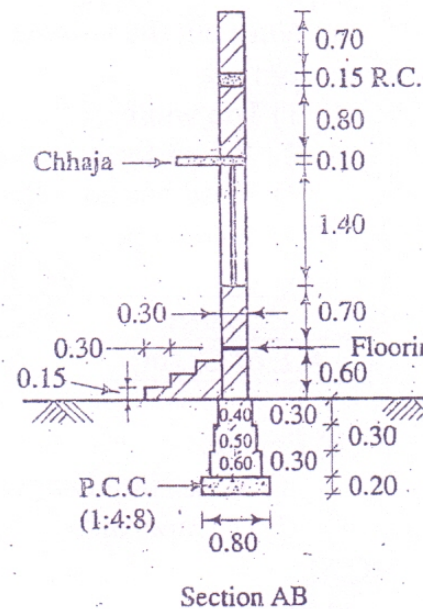
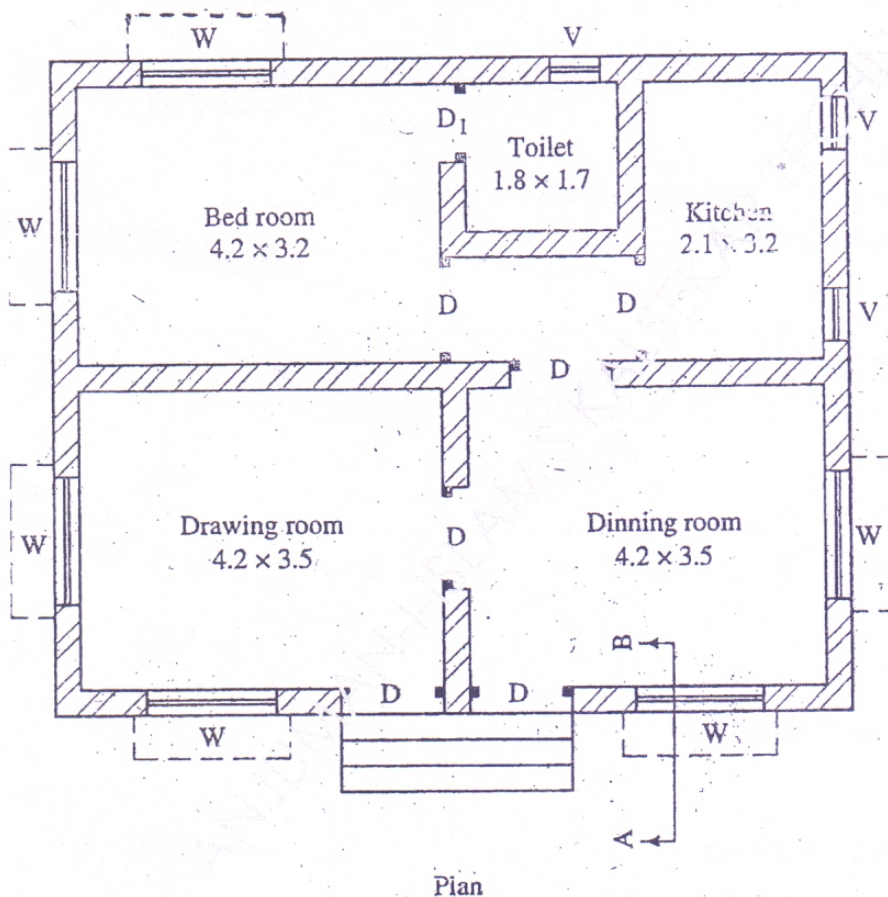
--- 04M.

- 1) Pre-bid conference
- 2) Debitable agency.

--- 20M.

Q.7) Write notes on following (any four)

- a) Earnest Money Deposit & Security Deposit
- b) C.B.R.I. method.
- c) I.S 1200
- d) Freehold properties & leasehold properties.
- e) Use of computers in Estimation process.



Reference

- D - 1.2 m x 2.1 m
- D₁ - 0.9 m x 2.0 m
- W - 1.5 m x 1.4 m
- V - 0.6 m x 0.45 m

Fig. No. 1