



SF-7003

B. Arch. - III (Sem. - VI) Examination

May/June - 2011

Estimation

Time : 2 Hours]

[Total Marks : 50

Instruction :

नीचे दृष्टावेक निशानीवाणी विगतो उतरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. ARCH. - 3 (SEM. - 6)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="ESTIMATION"/>	<input type="text"/>
Subject Code No. : <input type="text" value="7"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="3"/>	Section No. (1, 2,.....): <input type="text" value="Nil"/>
Student's Signature	

- 1 (a) With reference to plan-A and its section workout the quantities for the following items :
- (i) Providing and laying reinforce cement concrete of M20 grade for columns and beams at any height with all leads and lift, including mixing of concrete, pouring, vibrating the concrete, curing all complete. **10**
- (ii) Providing and laying steel/wood formwork for beams and slab at any height with all leads and lifts including scaffolding, propping, maintaining proper line and level as per drawing and demoulding the member after concrete, all complete. **10**

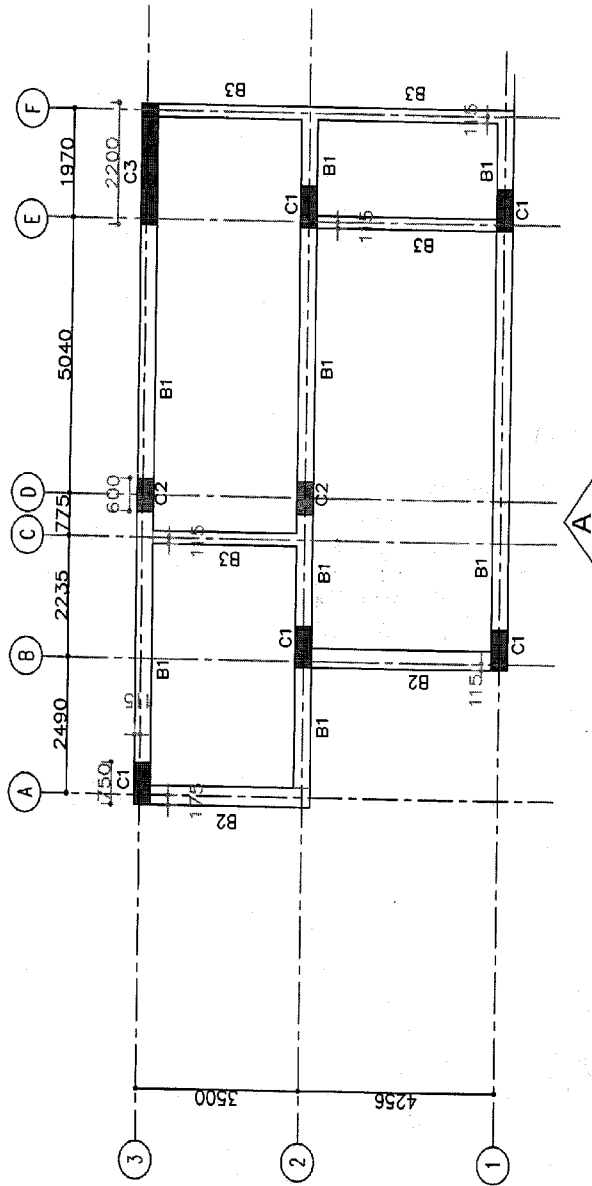
OR

- 1 (a) With reference to Plan-B and its section workout the quantities for the following items :
- (i) Providing and laying brickwork using conventional clay bricks in super structure in 1:6 CM (1 cement : 6 coarse sand) including, scaffolding, curing, all material and labour complete for all leads and lifts. (Workout the quantities for wall) **10**
- (ii) Providing 20mm. thick double cost plaster on brick masonry below plinth with 12mm th back cost wired finished in 1:4 CM and 8mm th 1:1 CM finishing coat, finishing it even and smooth, including scaffolding, curing, as per specification, with all material and labour complete. (workout the quantities for wall A and B only and support it with sketch) **10**

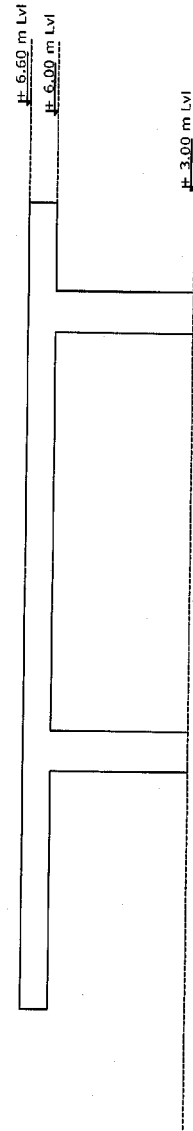
- (b) Workout the unit rate of the following items with following basic rates of the material and labour.
- Cement : 230 Rs / Bag
 - Sand : 1130 Rs / cum
 - Aggregate 1300 Rs / cum
 - Skilled labour : 350 Rs / day (8 hour)
 - Unskilled labour : 200 Rs / day (8 hour)
 - First Quality Gana Teak wood : 63,000 Rs / cum
 - Hilti make GI anchor fasteners : 110 Rs / piece
- (i) Providing and laying cement concrete in 1:5:10 7.5 proportion including compaction, finishing top surface to the proper level, curing all complete, in foundations, plinth, sub base of floors as per specifications and directions as per Engineer-in-charge.
- (ii) Providing and laying first class Gana teak wood 7.5 Frame of 125 mm × 50 mm for door opening of 2.1mH×0.9mW in proper line and level, including fixing it with approved make GI fasteners polishing it as per design all complete. (polishing of the frame shall be paid in relevant separate tender item)

- 2 Answer the following :
- (i) Explain the meaning of "Item Description" in Bill of Quantity of a tender. How rate of an item depends on item description, explain with an example. 3
- (ii) Draw formate of the following, also write full form of the following and explain their use. (any three) 6
- (a) BOQ
 - (b) SOR
 - (c) MB sheet
 - (d) BBS
- (iii) Frame item description for excavation of foundation and transporting it within 100m lead. 2
- (iv) Write units of following item : 2
- (a) PCC below grade slab
 - (b) Water proofing plaster in sunken part of toilets
 - (c) Stainless Steel staircase railing.
 - (d) Concrete interlocking paver blocks.
- (v) Write brief about your understanding of method of measurement for excavation with respect to working space. You may explain with the help of sketch. Will mode of measurement change with depth of depth of excavation ? 2

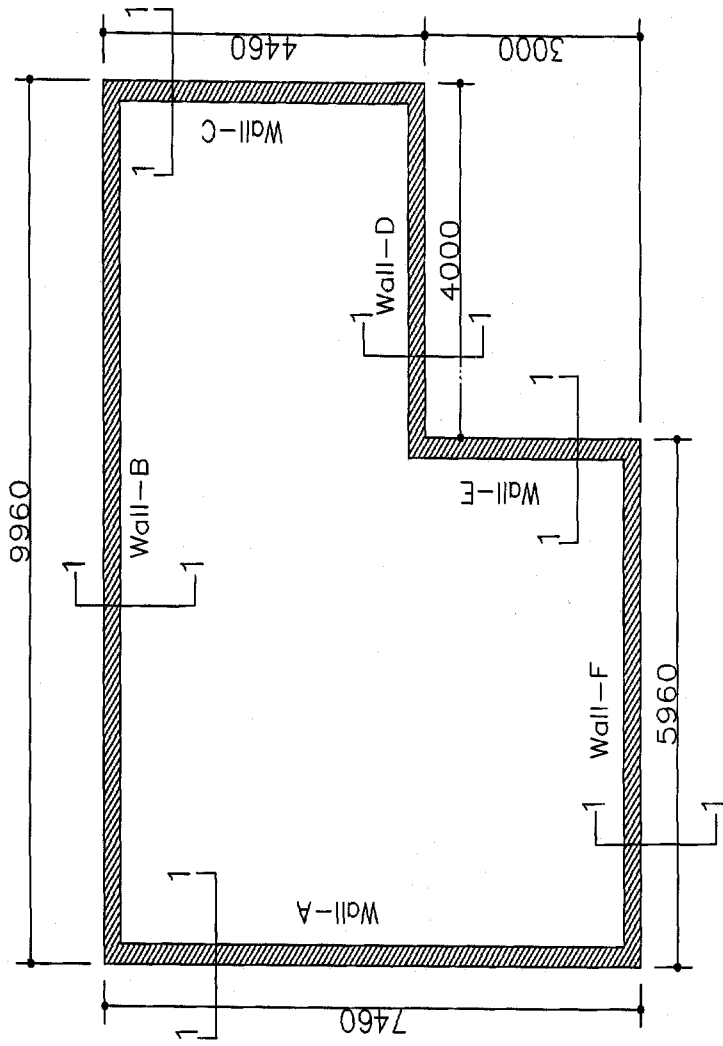
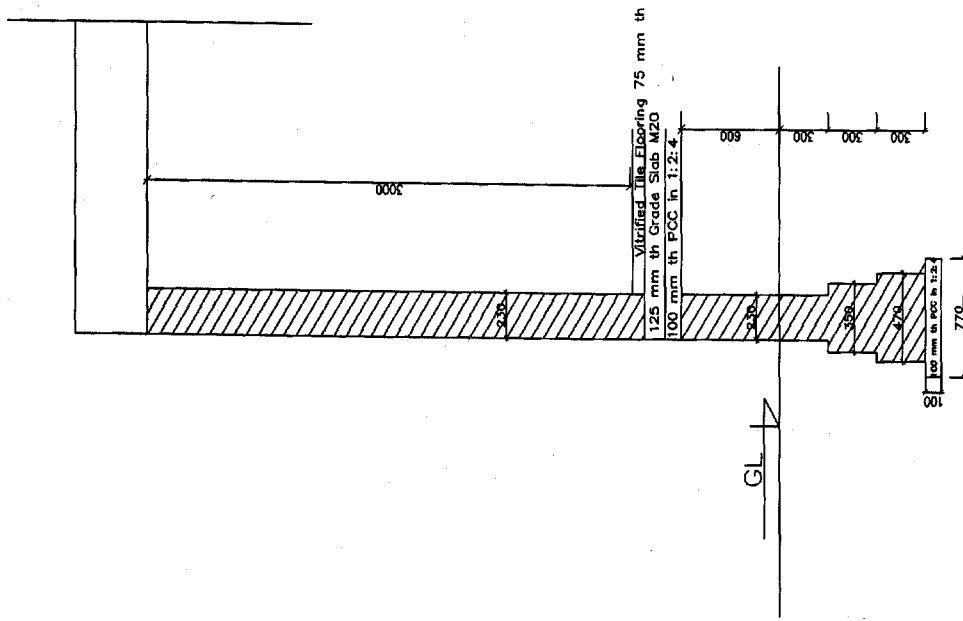
PLAN - A



Schedule	
B1	350 mm x 600 mm
B2	350 mm x 600 mm
B3	230 mm x 600 mm
C1	750 mm x 350 mm
C2	600 mm x 230 mm
C3	2200 mm x 350 mm



Elevation-A



PLAN - B

Section 1-1