Total No. of Questions : 6]

SEAT No. :

P2

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APR.-17/B.E./Insem.-2

B.E. (Civil Engineering)

QUANTITY SURVEYING CONTRACTS & TENDER

(2012 Pattern) (Semester - II)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) ***Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.***
2) ***Figures to the right indicate full marks.***
3) ***Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.***
4) ***Assume suitable data, if necessary.***
5) ***Neat diagrams must be drawn wherever necessary.***

Q1) a) What is an estimate? Hence state the purposes of preparing detailed estimate. **[3]**

b) Differentiate between revised estimate and supplementary estimate. **[4]**

c) What do you mean by contingencies? How much provision is made for contingencies while preparing estimate? **[3]**

OR

Q2) a) Explain the following with suitable example : **[4]**

i) The provisional sum item

ii) Prime cost items.

b) Explain the method of measurement and rule for making deductions for openings for following items. **[6]**

i) Plastering to the wall surface, and

ii) Brick masonry in superstructure.

P.T.O.

Q3) Figure 1 shows plans of residential building. Determine the quantities of following items.

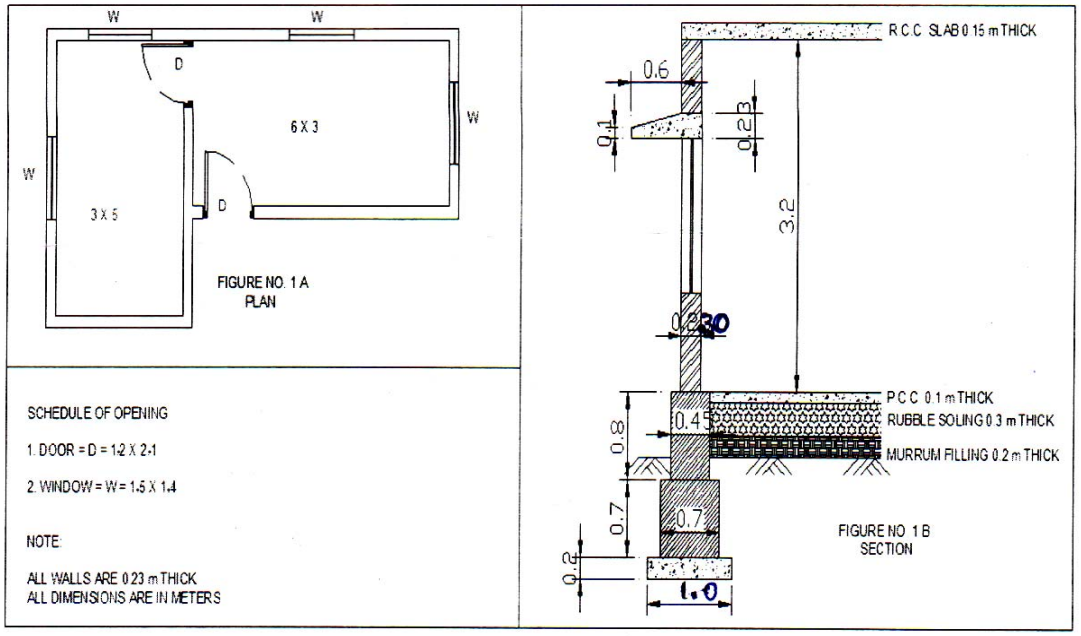

Figure1

a) Excavation in foundation. **[2]**

b) UCR masonry in CM (1:6) in foundation **[2]**

c) PCC (M15), Rubble soling and murrum filling in plinth **[3]**

d) RCC (M20) in lintel and chajja. **[3]**

Assume 15cm bearing for the lintels on either side of openings

OR

Q4) a) Refer Figure 1 determine the quantities of following items.

i) 12 mm thick internal plaster **[2]**

ii) 20 mm thick sand faced external plaster **[2]**

iii) Steel reinforcement in slab for both rooms is 8mm Dia. bars provided at 120 mm c/c along short and long span with alternate bars bent up at support. Determine the quantity of reinforcement. **[4]**

b) State the data required preparing estimate. **[2]**

Q5) a) Define 'Depreciation' and hence determine the book value of a hot mix plant after 4 years by sinking fund method. Use following data. **[6]**

i) Cost of the plant: Rs. 10 lakhs,

ii) Scrap value: Rs. 1 lakh,

iii) Life of the mixing plant: 10 years,

iv) Rate of interest on government securities: 6%.

b) Differentiate between following terms ; **[4]**

i) Estimated Cost and Value,

ii) Scrap value and salvage value.

OR

Q6) a) Define Outgoings' and state different types of outgoings considered in valuation of a property. **[3]**

b) Determine the capitalized value of a building using following data. **[4]**

i) Income available from the property: Rs. 96000/-per annum.

ii) Life of the property: 80 years.

iii) The rate of interest on investment is 8% and rate of interest on Government securities is 5%.

iv) All outgoings: 35% of gross income.

c) Explain the method of measurement for RCC works. **[3]**