Seat No. | 35955

B.E. (Civil) (Semester - VII) Examination, December - 2014
QUANTITY SURVEYING & VALUATION (Elective - I) (New)
Sub. Code : 47902

Day and Date : Monday, 15 - 12 - 2014
Time : 2.00 p.m. to 6.00 p.m.

Total Marks : 100

Instructions :
1) Q.No.1 is compulsory.
2) Attempt any two questions from remaining questions of Section - I.
3) Attempt any three questions from Section - II.
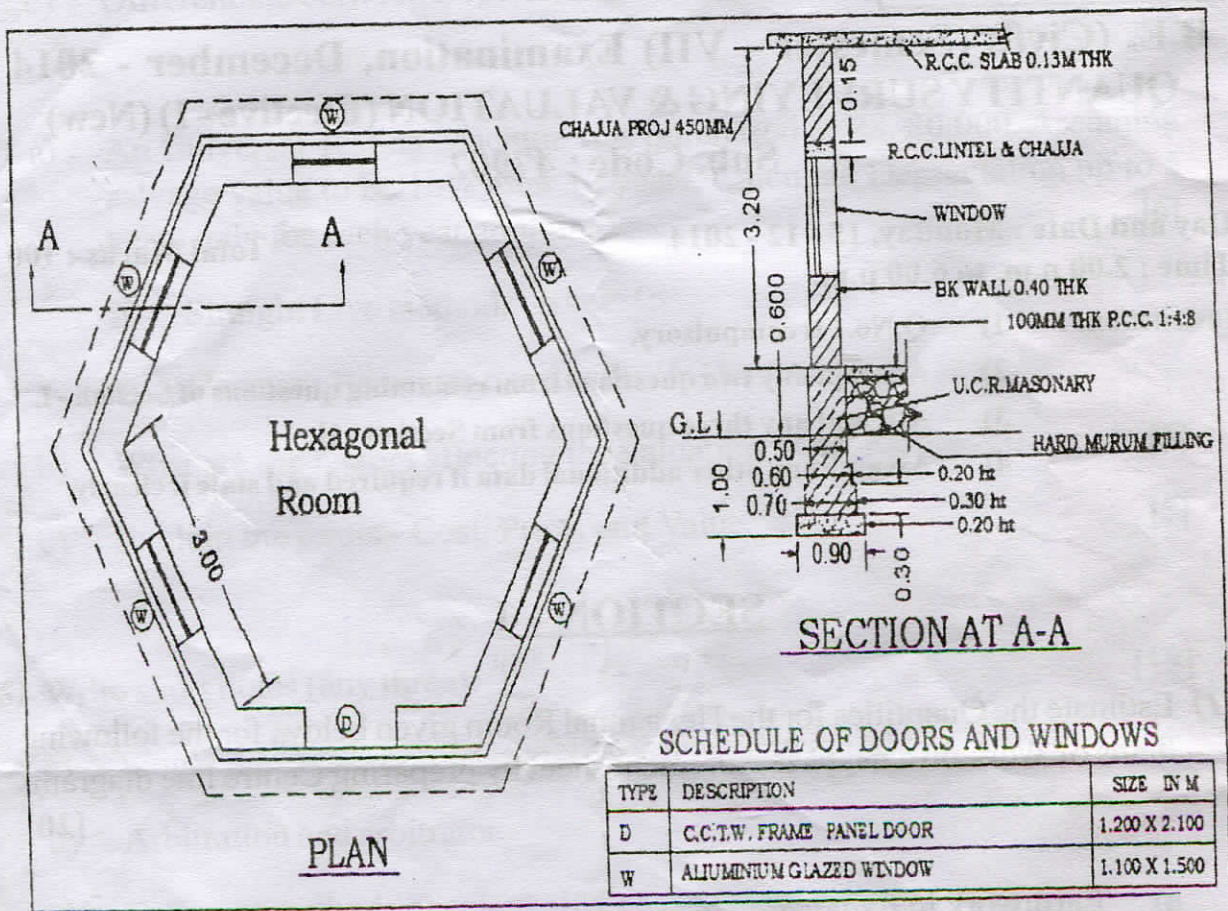4) Assume any other additional data if required and state it clearly.

SECTION - I

Q1) Estimate the Quantities for the Hexagonal Room given below, for the following items of Work on a neat Measurement sheet by preparing Centre line diagram: **[20]**

a) Earthwork in Excavation in foundation.

b) P.C.C. for bed concrete & plinth in 1 : 3 : 6.

c) U.C.R. Masonry in foundation and in plinth.

d) Brick Masonry in Superstructure.

e) R.C.C. M-20 for slab concrete, chajja & lintel.

f) 12mm thk Internal Plaster.

P.T.O.

CHAJJA PROJ 450MM

R.C.C. SLAB 0.13 M THK

R.C.C. LINTEL & CHAJJA

WINDOW

BK WALL 0.40 THK

100MM THK P.C.C. 1:4:8

U.C.R. MASONARY

HARD MURUM FILLING

G.L

0.50
0.60
0.70
1.00

0.20 ht
0.30 ht
0.20 ht

0.90

0.30

SECTION AT A-A

Hexagonal Room

3.00

PLAN

SCHEDULE OF DOORS AND WINDOWS

TYPE	DESCRIPTION	SIZE IN M
D	C.C.T.W. FRAME PANEL DOOR	1.200 X 2.100
W	ALUMINIUM GLAZED WINDOW	1.100 X 1.500

Q2) a) What are the different types of estimates? Explain in detail preparing Approximate estimate for a primary school building. **[10]**

b) Explain Administrative approval, Technical sanction. What are the documents required along with the detailed estimate to be submitted for sanction? **[5]**

Q3) a) Enlist the different types of specifications and write a note on legal aspects of specifications. **[5]**

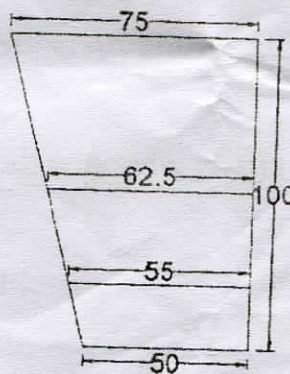b) What is D.S.R. Name at least four main heads of item covered in D.S.R? **[5]**

c) Write the units of measurement of the following items of works **[5]**

   i) Excavation in Earthwork.

   ii) U.C.R. Masonry.

   iii) Steel work for truss.

   iv) Window glazing.

   v) Nahani traps.

Q4) a) Work out the quantity of materials required for laying 10 mm thick vitrified tile flooring in a room of size 10 x 10 m, in 30 mm cement bed mortar in C : M 1 : 4. Also prepare rate analysis for the same. **[10]**

   b) Explain the term Rate analysis. What is Task work and what is its importance in rate analysis? **[5]**

SECTION - II

Q5) a) Draft a Notice Inviting Tender for the Government of Maharashtra for the work of constructing a Bridge over a river on a State Highway. Assume any other suitable data. **[6]**

   b) What are the essentials of a contract. **[5]**

   c) Explain what is sinking fund. How is this fund developed? **[5]**

Q6) a) Valuation of a plot as shown in figure is to be done by belting method. The front belt of 50m width is having a depth of 20 m and is valued at Rs. 350 per sqm. Dimensions of the plot are as given in fig. **[6]**

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b)   Explain Valuation by developmental method.   [5]

c)   Differentiate between Depreciation and Obsolescence.   [5]

Q7) a) An Universal Testing Machine was purchased at Rs. 80,000. Assuming salvage value to be 10% after 10 years, Calculate Depreciation up to 5 years only for each year adopting: [6]

i)   Straight Live method.   36000/-

ii)   Constant Percentage method.   25293.76/-

b)   What are the factors affecting the valuation of properties.   [5]

c)   Explain the terms - Cost, Price, and Value.   [5]

Q8) Write short notes (any three):   [18]

a)   Single rate years purchase and dual rate years purchase.

b)   Arbitration and arbitrator.

c)   Different methods of calculating depreciation.

d)   Item rate and percentage rate contract.

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