15+2 = 17.

Roll No. _____

[Total no. of Questions: 07] [Total no. of Pages: 02]

B. Architecture (Semester - 6th)

ESTIMATING, COSTING AND SPECIFICATIONS - I

SUBJECT CODE: AR-604

Paper ID: M/18

R.G

Time: 03 Hours Maximum Marks: 60

Instructions to Candidates:

1) Question No 1. is compulsory.
2) Attempt at least one question from each unit.
3) Attempt five questions in total.

Q.1. a. One cubic meter contains how many bricks?
b. Weight of one meter 20mm dia. steel bar.
c. What is the minimum cover required on steel in foundation, column, beam and slab? (2X6=12)
d. What do you mean by Bill of Quantity?
e. What are the units of measurement of damp proof course and marble flooring?
f. One cubic meter contains how many bags of cement?

UNIT - I

Q.2. What do you mean by specification? Identify the precautions to be taken while writing specifications for a particular item of work. Also,write down brief specifications for terrazzo flooring. . (12)

Q.3. What do you understand by detailed specification? Write detailed specifications for Brick Masonry and R.C.C.work. (12)

UNIT -II

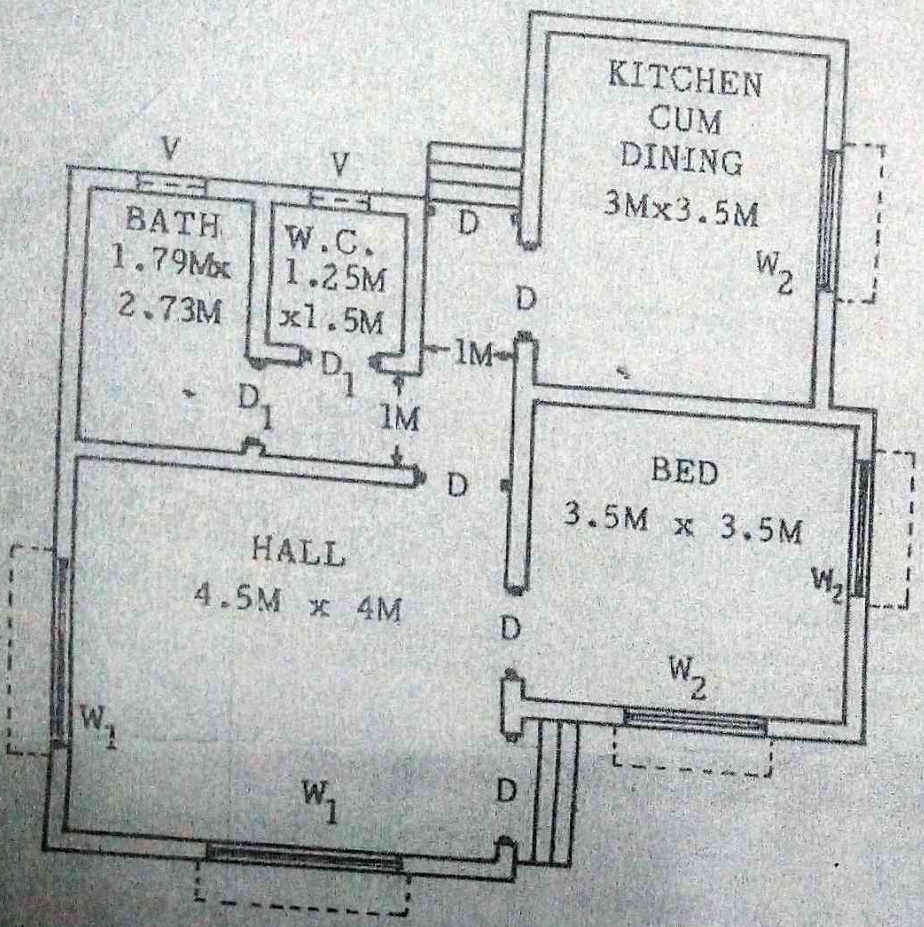
Q.4 Estimate the quantities of any three items of work from Plan and Elevation given in Fig.1 (12)
a) Earthwork in excavation
b) Lean concrete in foundation
c) 1st Class brickwork in foundation and plinth in cement mortar 1:6
d) D.P.C.

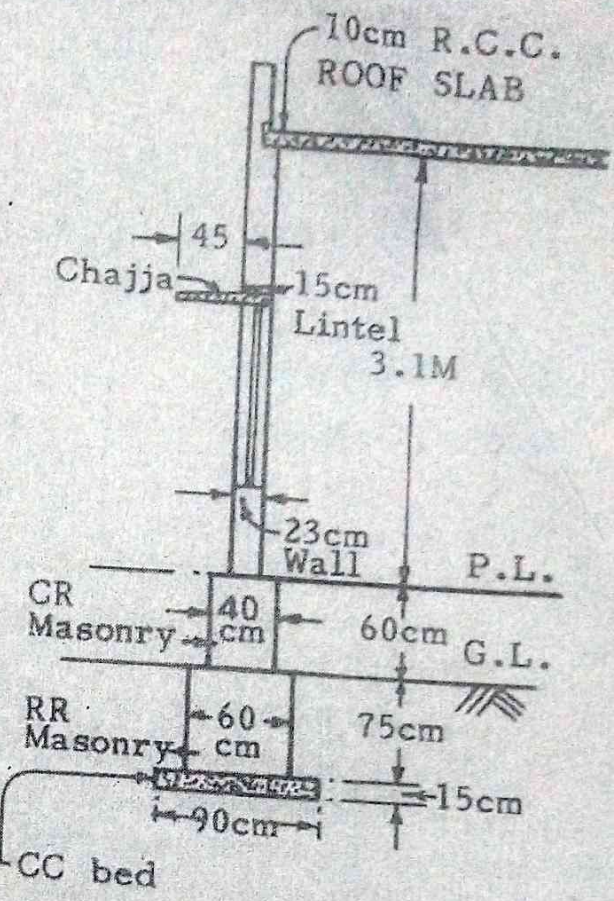
Q.5. What is an Estimate? What data is required to prepare an estimate? Define Plinth area estimate, Revised estimate and detailed estimate/ (12)

UNIT – III

Q.6. Calculate and prepare the analysis of rates for the following: (12)
a) R.C.C. work 1:2:4
b) 12mm Cement plaster 1:4 on ceiling

Q.7 List any 10 building materials and their prevailing market rates? Also list any five types of labour available for various construction jobs and their daily wages. (12)





Schedule

Doors :

D = 1.2Mx2.1M

D_1 = 0.9Mx2.1M

WINDOWS

W_1 = 2.0Mx1.5M

W_2 = 1.5Mx1.5M

V = 1.0Mx0.6M

Fig-1