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BCE-042

Diploma in Civil Engineering

Term-End Examination

December, 2010

01564

BCE-042 : ESTIMATING & QUANTITY SURVEYING-II

Time : 2 hours *Maximum Marks : 70*

Note : *Attempt five questions in all. Assume suitable data wherever required.*

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1. Select the correct answer from the given alternatives. **7x2=14**

(a) As per MES practice, take off sheet column No.3 is used for :

(i) Writing description of items

(ii) Recording dimensions

(iii) Timsing

(iv) Recording squaring Results, of dimensions

(b) Expected out turn of 12mm thick plastering with cement mortar is :

(i) 15 Sqm (ii) 10 Sqm

(iii) 5 Sqm (iv) 25 Sqm

(c) Bhisti is a labour of category ;

(i) Skilled (ii) unskilled

(iii) semiskilled (iv) None

(d) As per general condition of contract in MES, any single work Job or service ordered on a Term contract (TC) shall not exceed.

(i) Rs. 80,000 (ii) 90,000

(iii) Rs.60,000 (iv) 30,000

(e) The item of steel work which is measured in square meter is :

(i) Collapsible Gates

(ii) Rolling shutters

(iii) Steel doors

(iv) All of the above.

(f) The minimum width of septik tank is taken as :

(i) 60 cm (ii) 70 cm

(iii) 75 cm (iv) 90 cm

(g) Brick walls are measured in Square meters if the thickness of wall is :

(i) 10 cm (ii) 15 cm

(iii) 20 cm (iv) All

2. (a) What are the stages involved in quantity surveying ? Elaborate each stage in brief.

(b) What are the functions of each column of take off sheet ? Give example. **7x2=14**

3. Plinth area of a Building is 1278 Sqm. The plinth area rate of similar building in the same area is Rs.9532.00 per Sqm.+7% Building cost index. Calculate the cost of the building. **14**

4. A barrack 28.50 m long and 11.50 m wide has been plastered on both sides. It has following openings in 30 cm thick wall. **14**

   (i) Ventilators - 600x450mm-20 Nos.

   (ii) Doors - 1200x2100mm-15 Nos

   (iii) Windows - 900x1200mm- 13 Nos

   (iv) Iron Gate - 2500x3000mm-01 No.

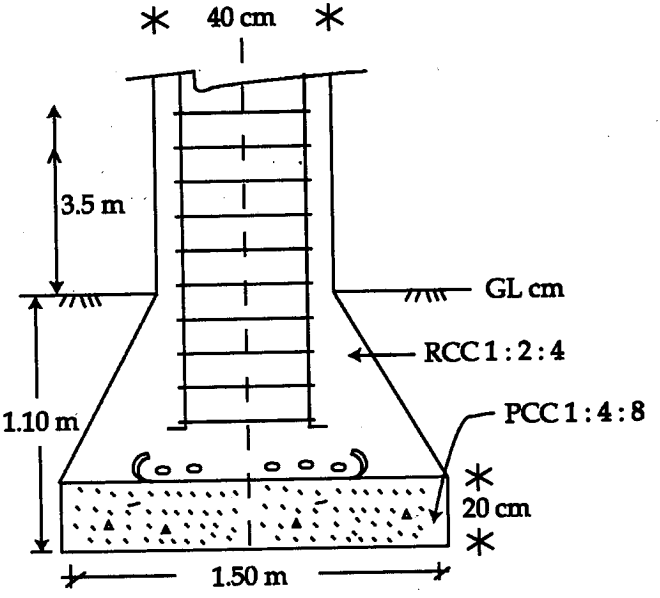
   Calculate the quantity to be deducted from plastering area.

5. Prepare the analysis of rate for the following items **4x3½=14**

   (a) Form work to sides of concrete to foundations, footings, beams of columns, raft and raft beams and similar works vertical or to batter.

   (b) Brickwork is well burnt old size bricks in super structure straight or curved on plan exceeding 6 m radius built in cement mortar (1:6).

6. Calculate the following items from the given figure for an RCC square column footing. 3½x4=14



(i) Earth work is excavation in foundation

(ii) Cement concrete in foundation (1:4:8)

(iii) R.C.C. in super structure (1:2:4)

(iv) R.C.C. in foundation up to GLC (1:2:4)

7. Prepare a star rate for material and labour for an AC corrugated sheet roofing with 6 mm thick sheets fixed with 8 mm dia GI J bolts and washers. 14

8. Write short notes on ***any four*** of the following : **4x3½=14**

(i) Procedure of Take off

(ii) Standard schedule of rates

(iii) Estimate on service unit basis

(iv) Work orders

(v) PRORATA analysis of items

(vi) Labour output and factors affecting it.