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BCE-042

DIPLOMA IN CIVIL ENGINEERING
DCLE(G) / DCLEVI

Term-End Examination

00237 **December, 2017**

BCE-042 : ESTIMATING AND QUANTITY SURVEYING – II

Time : 2 hours *Maximum Marks : 70*

Note : *Question no. 1 is* ***compulsory****. Attempt* ***five*** *questions in all. Use of scientific calculator is allowed. Assume suitable data wherever required.*

1. Select the most appropriate answer from the given alternatives. *7×2=14*

(a) The most accurate estimate is based on

(i) Service unit

(ii) Typical bay

(iii) Item wise

(iv) Plinth area

(b) As per general conditions of contract any single work, job or service ordered on a term contract, should ***not*** exceed

(i) ₹ 10,000

(ii) ₹ 1,00,000

(iii) ₹ 50,000

(iv) ₹ 60,000

(c) Expected out-turn of 12 mm thick plastering with cement mortar is

(i) 15·00 sqm

(ii) 25·00 sqm

(iii) 10·00 sqm

(iv) 7·50 sqm

(d) Honeycomb brick-work is measured in

(i) Sq m

(ii) Cu m

(iii) Running metre

(iv) R/feet (Rft)

(e) MES SSR Part II deals with

(i) Structural drawing

(ii) Specifications

(iii) Rates

(iv) Construction drawing

(f) Dismantling of brick-work is measured in

(i) Cu m

(ii) Nos

(iii) Sq ft

(iv) None of the above

(g) "BELDAR", as a category of labour is

(i) Skilled

(ii) Waterman

(iii) Unskilled

(iv) Semi-skilled

2. (a) What do you understand by the term Estimation ? What are the various data required for the preparation of an estimate ? *7*

(b) What are the different forms of measurements ? Explain with examples. *7*

3. The plinth area of a building is 1650 sq m. The plinth area rate of a similar building in the same locality is ₹ 12,600·00 per sq m + 7% Building Cost Index.

Calculate the cost of the building. *14*

4. A room of internal dimension 3·0 × 4·0 m has two doors and five windows of size 1·20 × 2·10 m and 1·20 × 1·20 m respectively. Wall thickness is 230 mm.

Calculate the following items of works :

(a) RCC roofing 1 : 2 : 4 assuming full bearing on walls. Slab thickness is 12 cm.

(b) Ceiling plaster with 1 : 3 cement sand mortar. *14*

5. Prepare the Analysis of Rate for any ***one*** of the following : *14*

(a) R.C.C. in slabs supported on walls, beams and columns in floors, roofs, landings and the like with 1 : 2 : 4 (20 mm graded aggregate) mix.

(b) First class brick-work in superstructure with 1 : 6 cement mortar.

6. (a) Enlist the main items of works for complete estimation of a building. Write a brief specification for any one of these items. *7*

(b) Prepare a pro rata for providing a 25 mm thick flush shutter with a solid core construction with block board core. It has plywood face panels of commercial type on both sides. *7*

7. Write short notes on any ***two*** of the following : *2×7=14*

(a) Requisitions

(b) Work Orders

(c) Overhead Charges

(d) Standard Schedule of Rates