

C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name: Quantity Surveying and Estimating

Subject Code: 2TE04QSE1

Branch: Diploma (Civil)

Semester: 4

Date: 24/11/15

Time: 2.30 To 5.30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-1 Attempt the following questions: (14)**
- a) Which of the following is the most correct estimate? (1)**
(a) Plinth area estimate (b) cube rate estimate
(c) detailed estimate (d) building cost index estimate
- b) Working out the exact quantities of various items of work is known as (1)**
(a) estimating (b) mensuration (c) quantity surveying (d) valuation
- c) The essential requirements to prepare a good estimate are (1)**
(a) a full dimensioned drawing to scale (b) detailed specifications
(c) schedule of rates (d) all the above
- d) The size of the standard modular brick is (1)**
(a) 19 cm×9 cm×9 cm (b) 20 cm×9 cm×9 cm
(c) 20 cm×10 cm×9 cm (d) 20 cm×10 cm×10 cm
- e) In the analysis of rates , the profit for the contractor is generally taken (1)**
(a) 20 % (b) 25% (c) 10 % (d) 5 %
- f) In the analysis of rates what percentage of total cost is provided towards water charges (1)**
(a) 5 % (b) 7.5 % (c) 1.5 % (d) 10 %
- g) The weight of cement in one bag is (1)**
(a) 45kg (b) 50kg (c) 60kg (d) 65kg
- h) The volume of cement in one bag is (1)**
(a) 0.067m³ (b) 0.050m³ (c) 0.033m³ (d) 0.025m³
- i) The quantity of wood for the shutters of doors and windows is calculated in (1)**
(a) m² (b) m³ (c) m (d) lump-sum
- j) The number of standard modular bricks required to make 1m³ of masonry is (1)**
(a) 480 (b) 500 (c) 520 (d) 540
- k) The quantity of damp proof course (D.P.C) is worked out in (1)**
(a) m³ (b) m² (c) m (d) lump-sum



- l) The quantity of partition walls and honey-comb walls are worked out in (1)
 (a) m^3 (b) m^2 (c) m (d) lump-sum
- m) The quantity of frames of doors and windows are worked out in (1)
 (a) m^3 (b) m^2 (c) m (d) lump-sum
- n) The approximate cost of the complete labour as a percentage of the total cost of the building is (1)
 (a) 10 % (b) 25 % (c) 40 % (d) 5 %

Attempt any four questions from Q-2 to Q-8

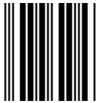
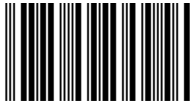
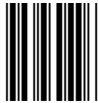
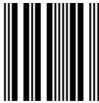
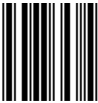

- Q-2 Attempt all questions (14)**
 (a) Give rules for deduction in plastering, concrete works and brick masonry. (7)
 (b) Give the measurement units for the different items\materials which is used in the construction of civil structure. (7)
- Q-3 Attempt all questions (14)**
 (a) Explain the Centre line method of finding the estimate of structure. (7)
 (b) What is long wall short wall method? Describe this method in detail. (7)
- Q-4 Attempt all questions (14)**
 (a) Define Rate analysis. State factors affecting rate analysis. (7)
 (b) Write short notes on: Schedule of rates (S.O.R.) (7)
- Q-5 Attempt all questions (14)**
 (a) Explain : Task work List and Explain types of detail estimate (7)
 (b) List and explain factors affecting task work. (7)
- Q-6 Attempt all questions (14)**
 (a) Define specification. Give their importance. Give the purpose of specifications. (7)
 (b) Give the principle of writing specifications. (7)
- Q-7 Attempt all questions (14)**
 (a) Write detailed specifications for the following items: (7)
 1. White washing. 2. Wood work for doors and windows shutters.
 3. Pointing.
- (b) Write detailed specifications for the following items: (7)
 1. Cement concrete in foundation. 2. Plastering.
 3. Damp proof course (D.P.C.)
- Q-8 Attempt all questions (14)**
 (a) List and Explain types of detail estimate. (7)
 (b) Explain Skills of good estimator. (7)



Q-1

Attempt the following questions:

(14)

o)    estimate    ? (1)

(b) Plinth area estimate

(b) cube rate estimate

(c) detailed estimate


(d) building cost index estimate

p)     items    quantities    (1)

   ?

(a) estimating (b) mensuration (c) quantity surveying (d) valuation

q)  estimate       ? (1)

(a) a full dimensioned drawing to scale (b)  specifications

(c)  

(d)   

r)   size : (1)

(a) 19 cm×9 cm×9 cm

(b) 20 cm×9 cm×9 cm

(c) 20 cm×10 cm×9 cm

(d) 20 cm×10 cm×10 cm

s)     contractor   : (1)

(a) 20 %

(b) 25 %

(c) 10 %

(d) 5 %

t)         : (1)

(a) 5 %


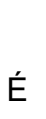





















(b) 7.5 %

(c) 1.5 %

(d) 10 %

u)     cement   : (1)







- v) (a) 45kg (b) 50kg (c) 60kg (d) 65kg (1)
- v)     cement    :
- (a) 0.067m^3 (b) 0.050m^3 (c) 0.033m^3 (d) 0.025m^3
- w) The quantity of wood for the shutters of doors and windows is calculated in (1)
- (a) m^2 (b) m^3 (c) m (d) lump-sum
- x)        :
- (a) 480 (b) 500 (c) 520 (d) 540
- y) The quantity of damp proof course (D.P.C) is worked out in (1)
- (a) m^3 (b) m^2 (c) m (d) lump-sum
- z) The quantity of partition walls and honey-comb walls are worked out in (1)
- (a) m^3 (b) m^2 (c) m (d) lump-sum
- aa) The quantity of frames of doors and windows are worked out in (1)
- (a) m^3 (b) m^2 (c) m (d) lump-sum
- bb)          :
- (a) 10 % (b) 25 % (c) 40 % (d) 5 %

Attempt any four questions from Q-2 to Q-8

Q-2

Attempt all questions

- (a)          (14)
- (b)       (7)
- (a)         (7)
- (b)      (14)

Q-3

Attempt all questions

- (a)      (14)
- (b)          (7)





Q-4

Attempt all questions

(14)

(a)



(7)



(b)

(7)



Q-5

Attempt all questions

(14)

(a)



(7)

(b)



(7)

Q-6

Attempt all questions

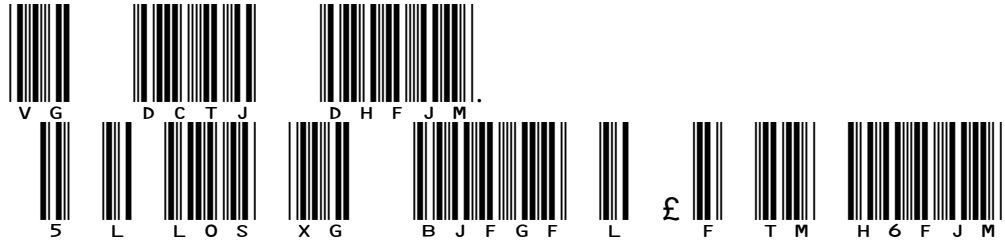
(14)

(a)



(7)

(b)



(7)

Q-7

Attempt all questions

(14)

(a)



(7)





(b)



(7)

Q-8

Attempt all questions

(a)



(14)

(7)

(b)



(7)

