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ET-521(D)

**B. TECH. CIVIL (CONSTRUCTION
MANAGEMENT) (BTCM)
Term-End Examination**

June, 2019

**ET-521(D) : QUANTITY SURVEYING AND
VALUATION**

Time : 3 Hours

Maximum Marks : 70

*Note : Attempt any five questions. All questions
carry equal marks.*

1. Select the correct answer out of the given choices :
- (a) Select the excavation depth where payments are made in sq. m : 2
- (i) Depth upto 1 m
 - (ii) Surface dressing upto 15 cm depth
 - (iii) Surface dressing upto 30 cm depth
- (b) The order of booking dimension is : 2
- (i) Length \times Breadth \times Height
 - (ii) Breadth \times Length \times Height
 - (iii) Length \times Height \times Breadth
 - (iv) Height \times Length \times Breadth

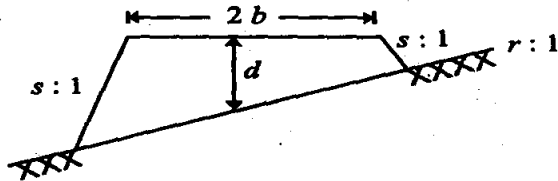
- (c) Which item of work is not included in the plinth area estimate ? 2
- (i) Wall thickness
 - (ii) Room Area
 - (iii) Balcony
 - (iv) Courtyard
- (d) Brick wall is measured in sq. m if the thickness of wall is : 2
- (i) 10 cm
 - (ii) 15 cm
 - (iii) 20 cm
 - (iv) None of the above
- (e) In long and short wall method of estimation, the length of the long wall is the centre to centre distance between the wall and : 2
- (i) Breadth of the wall
 - (ii) Half breadth of wall on each side
 - (iii) One-fourth of wall on each side
 - (iv) None of the above
- (f) The height of the sink of wash basin above floor level is kept at : 2
- (i) 60 cm
 - (ii) 70 cm
 - (iii) 75 to 80 cm
 - (iv) 80 to 85 cm

(g) Plinth area of a building does not include :

2

- (i) Area of stair cover
- (ii) Lift area and landing
- (iii) Area of cantilvered porch

2. (a) Calculate the area of the cross-section of a road fully in banking shown in the given figure : 9



where :

$$b = 8 \text{ m}$$

$$s = 2$$

$$r = 3$$

$$d = 4$$

(b) Calculate the area of a protective embankment of mean height ' d ', side slopes ' $S : 1$ ' and length is ' L '. 5

where :

$$d = 8 \text{ m}$$

$$S : 1 = 3 : 1$$

$$L = 10 \text{ m}$$

3. Define the following : 2 × 7
- (a) Shedule of ratès
 - (b) Analysis of rates
 - (c) Tender
 - (d) Contract
 - (e) BOQ
 - (f) Lead distance
 - (g) Carpet Area
4. What do you mean by Valuation ? Why is this required ? Describe any *two* methods of valuation. 2, 2, 5, 5
5. Differentiate between the following : $3\frac{1}{2} \times 4$
- (a) Depreciated value and Reduced value
 - (b) Revised estimates and Budget estimates
 - (c) Market value and Book value
 - (d) Value and Cost
6. Explain the following : $3\frac{1}{2} \times 4$
- (a) Capitalized value
 - (b) Arbitration
 - (c) Annuity
 - (d) Remuneration
7. What are the three types of specifications ? Explain each with example. 3, 11