

NADAR SARSWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E/CIVIL	Year / Semester : IV / VII	Format No.	NAC/TLP-07a.13
Subject Code : CE 8701	Subject Name : Estimation costing valuation & engineering	Rev. No.	02
Unit No : 02	Unit Name : RATE ANALYSIS	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	<p>Prepare the rough estimate for a proposed commercial complex for a municipal corporation for the following data.</p> <p align="center">Plinth Area = 500m²/floor</p> <p align="center">Ht of each storey = 3.5m</p> <p align="center">No. of storeys = G+2</p> <p align="center">Cubical content rate = Rs. 1000/m³</p> <p>Provided for a following as a percentage of structured cost</p> <p>a) water supply & Sanitary arrangement-8%</p> <p>b) Electrification-6%</p> <p>c) Fluctuation of rates- 5%</p> <p>d) Contractors profit- 10%</p> <p>e) Petty supervision & contingencies- 3%</p> <p>(A) 62.59 Lakhs (B) 60 lakhs (C) 65.245 Lakhs (D) 70.596 Lakhs</p>	L3
2	<p>The water proof mud- plaster consists of _____</p> <p>a) soil</p> <p>b) janta Emulsion</p> <p>c) cowdung</p> <p>d) soil, janta emulsion and cowdung.</p>	L1
3	<p>For ideal work, plastering should be applied in three coats- the rendering or first coat of 10 mm, the _____ and finishing coat of 5 to 6 mm having a total minimum thickness of 20 mm.</p>	L2

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	<p>a) scrubbing or second coat of 10 mm to 6 mm</p> <p>b) floating or second coat of 10 mm to 6 mm</p> <p>c) painting or second coat of 10 mm to 6 mm</p> <p>d) layering or second coat of 10 mm to 6 mm</p>	
4	<p>If the soil is not good and does not permit vertical sides, the sides should be sloped back or protected with timber shoring. Excavated earth shall not be placed within 12m of the edge of trench.</p> <p>a) True</p> <p>b) False</p>	L5
5	<p>During lime concreting in foundation if kankar lime is used 0.35 cu m of kanakar lime shall be used with 20 cu m ballast and no surkhi or sand or cinder shall be added.</p> <p>a) True</p> <p>b) False</p>	L5
6	<p>For controlling the amount of water in cement regular moisture test should be carried out to maintain the required consistency.</p> <p>a) True</p> <p>b) False</p>	L5
7	<p>The expected out turn of 2.5 cm cement concrete floor per manson per day</p> <p>A. 2.5 sqm</p> <p>B. 5.0 sqm</p> <p>C. 7.5 sqm</p> <p>D. 10 sqm</p>	L3
8	<p>Pick up the item of work not included in the plinth area estimate</p> <p>A. Wall thickness</p> <p>B. Room area</p>	L1

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	<p>C. Verandah area</p> <p>D. W.C. area</p> <p>E. Courtyard area.</p>	
9	<p>The brick work is measured in sq metre, in case of</p> <p>A. Honey comb brick work</p> <p>B. Brick flat soling</p> <p>C. Half brick walls or the partition</p> <p>D. All the above.</p>	L1
10	<p>Brick walls are measured in sq. m if the thickness of the wall is</p> <p>A. 10 cm</p> <p>B. 15 cm</p> <p>C. 20 cm</p> <p>D. None of these.</p>	L1
11	<p>The concrete work for the following part of the building of specified thickness is measured in square metres</p> <p>A. Root slabs</p> <p>B. Floors</p> <p>C. D.P.C.</p> <p>D. Wall panels</p> <p>E. All the above.</p>	L1
12	<p>The expected out turn of cement concrete 1 : 2 : 4 per mason per day is</p> <p>A. 1.5 m³</p> <p>B. 2.5 m³</p> <p>C. 3.5 m³</p> <p>D. 5.0 m³</p>	L5
13	<p>For 12 mm thick cement plastering 1 : 6 on 100 sq.m new brick work, the quantity of cement required, is</p>	L5

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	<p>A. 0.200 m³</p> <p>B. 0.247 m³</p> <p>C. 0.274 m³</p> <p>D. 0.295 m³</p>	
14	<p>The minimum width of a septic tank is taken</p> <p>A. 70 cm</p> <p>B. 75 cm</p> <p>C. 80 cm</p> <p>D. 90 cm</p>	L1
15	<p>The item of the brick structure measured in sq.m, is</p> <p>A. Reinforced brick work</p> <p>B. Broken glass coping</p> <p>C. Brick edging</p> <p>D. Brick work in arches.</p>	L1
16	<p>The inspection pit or chamber is a manhole provided in a base drainage system</p> <p>A. at every change of direction</p> <p>B. at every change of gradient</p> <p>C. at every 30 m intervals</p> <p>D. at the point where vertical soil pipe joins the house drain</p> <p>E. All the above.</p>	L1
17	<p>The plinth area of a building not includes</p> <p>A. area of the walls at the floor level</p> <p>B. area of stair cover</p> <p>C. internal shaft for sanitary installations up to 2 sq m. in area</p> <p>D. lift and wall including landing</p>	L2

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	E. area of cantilevered porch.	
18	<p>The most reliable estimate is</p> <p>A. Detailed estimate</p> <p>B. Preliminary estimate</p> <p>C. Plinth area estimate</p> <p>D. Cube rate estimate</p>	L2
19	<p>The item of steel work which is measured in sq.m, is</p> <p>A. Collapsible gates</p> <p>B. Rolling shutters</p> <p>C. Steel doors</p> <p>D. Ventilators and glazing.</p> <p>E. All the above.</p>	L2
20	<p>The expected out turn of 12 mm plastering with cement mortar is</p> <p>A. 2.5 sq m</p> <p>B. 4.0 sq m</p> <p>C. 6.0 sq m</p> <p>D. 8.0 sq m</p>	L1
21	<p>The detention period in a septic tank is assumed</p> <p>A. 20 minutes</p> <p>B. 25 minutes</p> <p>C. 30 minutes</p> <p>D. 40 minutes</p>	L1
22	<p>For 100 sq. m cement concrete (1 : 2: 4) 4 cm thick floor, the quantity of cement required, is</p> <p>A. 0.90 m³</p> <p>B. 0.94 m³</p>	L3

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	<p>C. 0.98 m³</p> <p>D. 1.00 m³</p>	
23	<p>For the construction of buildings, the subheads of the estimate are</p> <p>A. Earthwork, Concrete work, Brick work</p> <p>B. Brickwork, Stone work, Roofing</p> <p>C. Brickwork Flooring, Wood work, Steel work</p> <p>D. Plastering or pointing, finishing, water supply and sanitary work</p> <p>E. All the above.</p>	L2
24	<p>The measurement is made for stone work in square metre in case of</p> <p>A. Wall facing</p> <p>B. Columns, lintels, copings</p> <p>C. Building work</p> <p>D. Dressed stones in Chajjas</p> <p>E. (a) and (d) of the above.</p>	L1
25	<p>Carpet area does not include the area of</p> <p>A. the walls along with doors and other openings</p> <p>B. verandah, corridor and passage</p> <p>C. bath room and lavatory</p> <p>D. kitchen and pantry</p> <p>E. All the above.</p>	L1
26	<p>Pick up the incorrect statement from the following:</p> <p>A. Lead is the average horizontal straight distance between the borrow pit and the place of spreading soil</p> <p>B. The lead is calculated for each block of the excavated area</p> <p>C. The unit of lead is 50 m for a distance upto 500 m</p> <p>D. The unit of lead is 1 km where the lead exceeds 2 km.</p>	L1

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27	<p>Pick up the correct statement from the following:</p> <p>A. Pointing is measured in sq.m</p> <p>B. Plastering is measured in sq.m</p> <p>C. Glazing is measured in sq.m</p> <p>D. Striking is measured in sq.m</p> <p>E. All the above</p>	L1
28	<p>The expected out turn of half brick partition wall per mason per day is</p> <p>A. 1.5 m³</p> <p>B. 2.0 m³</p> <p>C. 4.0 m²</p> <p>D. 5.0 m²</p>	L5
29	<p>If B is the width of formation, d is the height of the embankment, side slope S : 1, for a highway with no transverse slope, the area of cross-section is</p> <p>A. $B + d + Sd$</p> <p>B. $Bd + Sd^2$</p> <p>C. $B \times d - Sd^{1/2}$</p> <p>D. $\frac{1}{2} (Bd + Sd^2)$</p>	L3
30	<p>The floor area includes the area of the balcony up to</p> <p>A. 100%</p> <p>B. 75%</p> <p>C. 50%</p> <p>D. 25%</p>	L2
31	<p>The expected out turn of brick work in cement mortar in foundation and plinth per mason per day, is</p>	L5

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	<p>A. 1.00 m³</p> <p>B. 1.25 m³</p> <p>C. 1.50 m³</p> <p>D. 1.75 m³</p>	
32	<p>Pick up the correct statement from the following:</p> <p>A. Bricks are paid per thousand</p> <p>B. Cement is paid per 50 kg bag</p> <p>C. Lime is paid per quintal</p> <p>D. Brick aggregates is paid per cum</p> <p>E. All the above.</p>	L1
33	<p>The rate of payment is made for 100 cu m (per % cu m) in case of</p> <p>A. Earth work in excavation</p> <p>B. Rock cutting</p> <p>C. Excavation in trenches for foundation</p> <p>D. Earth work in filling the plinth</p> <p>E. all the above.</p>	L2
34	<p>The measurement is made in square metre in case of</p> <p>A. Cement concrete in foundation</p> <p>B. R.C.C. structure</p> <p>C. Hollow concrete block wall</p> <p>D. Concrete fencing posts</p> <p>E. None of these.</p>	L1
35	<p>The brick work is not measured in cu m in case of</p> <p>A. One or more than one brick wall</p> <p>B. Brick work in arches</p>	L1

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	<p>C. Reinforced brick work</p> <p>D. Half brick wall.</p>	
36	<p>The rate of an item of work depends on</p> <p>A. Specifications of works</p> <p>B. Specifications of materials</p> <p>C. Proportion of mortar</p> <p>D. Method of construction</p> <p>E. All the above.</p>	L1
37	<p>The rate of payment is made for 100 cu m (per % cu m) in case of</p> <p>A. Earth work in excavation</p> <p>B. Rock cutting</p> <p>C. Excavation in trenches for foundation</p> <p>D. All the above</p>	L2
38	<p>The expected out turn of half brick partition wall per mason per day is</p> <p>A. 1.5 m²</p> <p>B. 2.0 m²</p> <p>C. 4.0 m²</p> <p>D. 5.0 m²</p>	L5
39	<p>For the construction of buildings, the subheads of the estimate are</p>	L1

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40	<p>The inspection pit or chamber is a manhole provided in a base drainage system</p> <p>A. At every change of direction</p> <p>B. At every change of gradient</p> <p>C. At every 30 m intervals</p> <p>D. All the above</p>	L2
41	<p>For 12 mm thick cement plastering 1 : 6 on 100 sq.m new brick work, the quantity of cement required, is</p> <p>A. 0.200 m³</p> <p>B. 0.247 m³</p> <p>C. 0.274 m³</p> <p>D. 0.295 m³</p>	L5
42	<p>For 100 sq. m cement concrete (1 : 2: 4) 4 cm thick floor, the quantity of cement required, is</p>	L5

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	<p>A. 0.90 m³</p> <p>B. 0.94 m³</p> <p>C. 0.98 m³</p> <p>D. 1.00 m³</p>	
43	<p>If subgrade is soft or weak, a thick sub-base of cheap and inferior materials well compacted should be used.</p> <p>a) False</p> <p>b) True</p>	L5

