

ADVANCED LEVEL NATIONAL EXAMINATIONS, 2017, TECHNICAL AND PROFESSIONAL STUDIES

EXAM TITLE: COST ESTIMATION OPTION: Construction (CST) DURATION: 3 hours

INSTRUCTIONS:

The paper is composed of three (3) main Sections as follows:

Section I: Fourteen (14) compulsory questions.55 marksSection II: Attempt any three (3) out of five questions.30 marksSection III: Attempt any one (1) out of three questions.15 marks

Note:

Every candidate is required to carefully comply with the above instructions. Penalty measures will be applied on their strict consideration.

55 marks

Section I. Fourteen (14) Compulsory questions

	1 stand by valuation?	2 marks	
01.	What do you understand by valuation?	2 marks	
02.	Clearly define the term "Tendering".		
03.	Once it has been decided to proceed with the documentation, the	nen a	
	Once it has been decided to prove the estimator has become familiar with the documentation, the the estimator has become familiar with the documentation, the	look at	
	the estimator has become familiar visit to the site should be undertaken. List out Six aspects to	6 marks	
	from the site.	4 marks	
04.	Describe two types of estimate.		
05.	Describe two types of estimate. Give and explain three factors to consider while preparing a	6 marks	
	estimate.	4 marks	
06.	State Four advantages of an open tendering.		
07.	Five points to consider while selecting the best of	ontractors	
07.	to invite when Selective tendering method is chosen to be us		
		-	
~~~	Outline five documents to accompany the detailed estimate	5 marks	
08.	a sumples of rate analysis.	x 200	
09.	Differentiate two technical terms "Lift" and "lead statement	". 4 marks	
10	in the five members of the responsible team to prope		
11			
	estimate. With clear definitions differentiate Cost from Price.	3 marks	
12	the second se	2 marks	
13	<ol> <li>What is the bill of qualitation</li> <li>State three responsibilities of a quantity Surveyor.</li> </ol>	3 marks	
14	4. State three responsionation of a		
		30 marks	
S	ection II. Choose and answer any three (3) questions.		
	<b>5.</b> Briefly explain five main purposes of valuation.	10 marks	
	6. Outgoings or the expenses which are required to be incur	red to	
1	6. Outgoings or the expenses which are required.		
	maintain the revenue of the building.	10 marks	
	Describe Five different various outgoings.		

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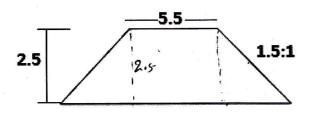
17. Indicate the measurement unit for the construction items listed in the table below: 10 marks

S/N	Particular items	Unit of measurement
1	Excavation	· · · · ·
2	Flooring	
3	Wall elevation	
4	Foundation masonry	10 U.S.
5	Fence in burnt bricks	
6	Pointing	
7	Ceiling	
8	Electrical distribution	
9	Site clearance	
10	Site installation	2

- **18.** Calculate the Quantity of materials (Sand, Cement and Gravel) for the following items:
  - a) C.C (Cement Concrete) with mix ratio (1:2:4) for 20m3 of work.
  - b) C.M (Cement mortar) with mix ratio (1:4) for 1m3 of work.

10 marks

**19.** Find the volume of earthwork in embankment of length 12m. Top width is 5.5m and depth is 2.5m, the side slopes are 1.5:1.



10 marks

#### Section III. Choose and answer any one (1) question.

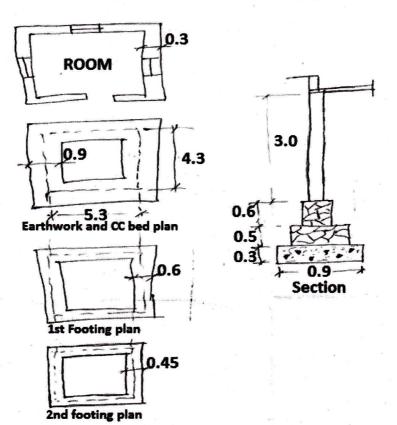
- **20.** The quantities like earth work, foundation concrete, brickwork in plinth and super structure etc., can be workout by any of following two methods:
  - a) Long wall short wall method
  - **b)** Centre line method.
  - c) Partly Centre line and short wall method.

In short describe each of the stated three methods. **15 marks** 

**21.** Clearly exemplify Five methods of valuation.

**22.** From the Drawing given below determine:

- a) Center line
- **b)** Earth work excavation
- c) CC (Cement Concrete) Bed
- d) Stone Masonry
- e) Brick Work (do not consider openings).



15 marks

15 marks

15 marks