

ADVANCED LEVEL NATIONAL EXAMINATIONS, 2015, TECHNICAL AND PROFESSIONAL TRADES

EXAM TITLE:	Cost Estimation (COE)			
OPTION:	Construction	(CST)		
DURATION:	3hours			

INSTRUCTIONS:

The paper is composed of **three (3) Sections**:

Section I: Eleven (11) questions, all Compulsory.	55marks
Section II: Five (5) questions, Choose Three (3) only.	30marks
Section III: Three (3) questions, Choose only One (1).	15marks

With Some Amove,

<u>Every candidate is required to strictly obey the above</u> <u>instructions. Punishment measures will be applied to anyone</u> who ignores these instructions. Section I. Eleven (11) Compulsory questions. 55marks

01. Mention six (6) qualities of a Good Estimate.

02. Mention the six (3) resources which require a unit rate in estimation.

03. State five (5) factors which an estimator should consider in pricing construction materials. **5ma**

- **04.** Highlight clearly the four (4) stages of Preparation of estimate. **8marks**
- **05.** The visit to the site will enable the estimator to produce a report which has specific information; describe three (3) of such information in that report.

06. Explain the meaning of the following Contract Documents as used in estimation:

a. Conditions of contract

- b. Contract Drawings
- **07.** Differentiate the following documents which are used in estimations:
 - i. Specification / Preambles
 - ii. Bill of Quantities
- **08.** What do you understand by the term "Valuation"? Explain clearly.

09. Provide a clear description of the following terms used in estimation :

- a) Appraisal
- b) Worth = Amount that cauld be achieved or produced Im a specific time
- c) Value

d) Market Value

- 10. What is the difference between price and cost? Give a clear meaning of each.4marks
 - List at least four (4) items stated in the enquiries & quotation document to the suppliers during tender preparations.
 4marks

Service remained or lichtich or obligation acquired 3) The manut of manay that something is knowl 3) The proce or cast of something

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4marks

3marks

8marks

5marks

6marks

6marks

3marks

4marks

Section II. Answer any three (3) questions of your choice				
(Do not choose more than <u>three questions</u>). 30ma	rks			
12. a) What are overheads?	2marks			
b) Explain head office overheads by giving six (6) examples.	6marks			
c) Give two (2) examples of project or site overheads.	2marks			
13. Name at least five SI basic units, their five basic quantities and	the			
corresponding five symbols.	10marks			
14. (a). Name Five (5) items which the Cost of temporary storage of				
water can include.	5marks			
(b). In costing the Pipe Bone Water in a site, mention five (5)				
cost items included.	5marks			
15. (a).What are Preliminary Items?	2marks			
(b). Describe site supervision as a preliminary item.	3marks			
(c). Highlight five (5) cost items to be considered by an estimator	r during the			
pricing of scaffolding.	5marks			
16. Highlight ten (10) Characteristics which can describe a good est	imator.			
	10marks			
Section III. Answer any one (1) question of your choice				
(Do not choose more than <u>one question</u>). 15marks				

17. Discuss clearly ten (10) factors affecting tender price. **15marks**

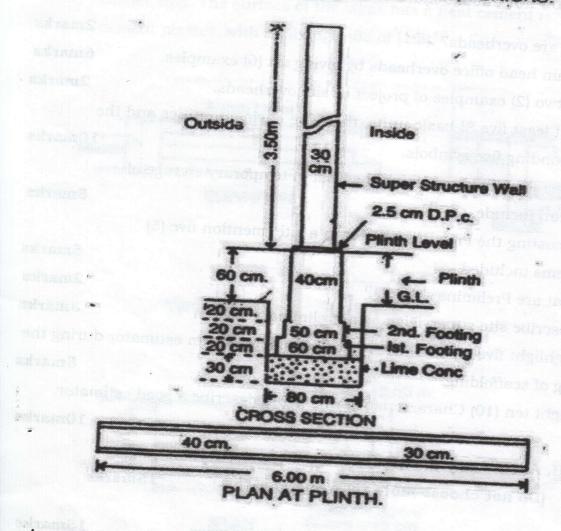
 Prepare an abstract of estimated cost of part of a building wall from the given plan and section of general specifications (Wall with Standard Modular Bricks)

General specifications:

- i. Foundation shall be in lime concrete
- ii. Foundation and plinth shall be of 1st class brickwork in lime mortar
- iii. Damp proof course-2.5mm cc $1:1\frac{1}{2}:3$ with water proofing compound
- iv. Superstructure -1st class brickwork in lime mortar
- v. Wall finishing-inside wall 12mm cement plastered 1:6 and white washed 3 coats

vi. Outside wall 12mm cement plastered 1:6 including 10cm below ground level and finished with two coats of colour wash over coat of white washing.

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WALL WITH STANDARD MODULAR BRICKS.

Assume the following rates (FRW)

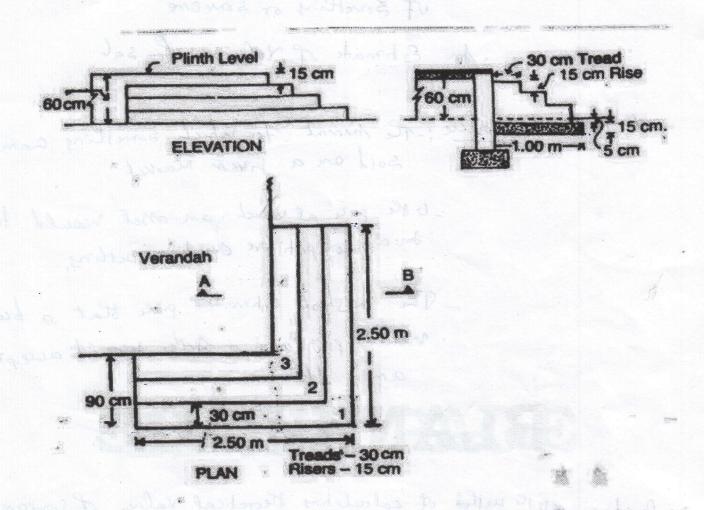
Item No	Description	ontany H
	alan and section of general approximate	Rate
1	Earthwork in foundation	(FRW)
2.	Lime concrete in foundation	350.00
3	1 st class brick work with white lime in	220.00
	foundation/plinth	300.00
4.	Dpc	() .iit
5. 900	1 st class brick work with white lime in superstructure	20.00
5.	12mm cement plaster	320.00
7 Tậi từ điệc	White washing 3 coats	8.50
annivite		0.75
	Colour washing 2 coats over one coat of white washing	0.82

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15marks

19. In the figure below, you are given an elevation, section and a plan of a corner step. The surface of the steps has a neat cement rendering of 20 mm cement plaster with a mixing ratio of (1:3).



Estimate the quantities of the total materials used in each of the following items:

i.	Earthwork in excavation (Front & side);	3marks .
ii.	Concrete in foundation (Front & side);	3marks
iii.	Brickwork on the 1 st , 2 nd and 3 rd steps (Front & side) and	4marks
iv.	Cement plastering on the 1 st , 2 nd , 3 rd steps and on the plinth.	5marks
	에 에게 뛰어난 해 뛰어난 것은 것은 것은 것이다. 지신은 것이 않는 것이 같은 것이 같은 것이 있는 것이 같은 것이 같은 것이 없는 것이 같은 것이 없는 것이 것이 없는 것이 것이 없는 것이 없다. 않은 않은 것이 없는 것이 없는 것이 않는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 않은 것이 없는 것이 없 않이 않다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없 않이 않는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 않이 않이 않이 않이 않이 않이 않이 않이 않이 것이 않아. 것이 않아. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없다. 것이 않아. 않아. 것이 없 않아. 것이 않아. 것이 않아. 것이 없는 것이 없는 것이 없다. 것이 없 않아. 것이 않아. 것이 않아. 것이 없 않아. 않아. 것이 않아. 것이 않아. 않아. 것이 않아. 않아. 않아. 않아. 않아. 것이 않아. 것이 않아. 것이 않아. 않아. 않아. 않아. 않아. 것이 않아. 않아. 않아. 않아. 않아. 않아. 않아. 않아. 않	

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