

TERTIARY AND VOCATIONAL EDUCATION COMMISSION



COMMON WRITTEN EXAMINATION - 2021/2022

Diploma in Quantity Surveying			
NVQ Level 05 –Semester I			
Measurement - I	F45C002M02	Three Hours	
Answer all questions			

Instructions to candidates:

- I. Calculation Attention to be drawn on methods of measuring dimensions, waste calculations, accuracy of dimensions, entering the dimensions in appropriate columns, clear and accurate work descriptions with standard abbreviations, abstracting and billing techniques.
- II. Query Sheet All queries should be listed together in a Query Sheet with assumptions made and should be attached with your answer papers.
- III. Method of Measurement Your answers should be based on the Method of Measurement for Building works SLS 573 – 1999 (First Revision).
- IV. Non programmable calculators can be used.

Specifications

- a. Site clearance clear entire land of 25 perches.
- b. Removing trees Remove 3 trees of each 400 mm, 900 mm, 1150 mm girth
- c. Concrete Foundation cement concrete 1:3:6 (25 mm)
- d. Rubble work Built in cement mortar 1:5
- e. DPC 12 mm thick in cement sand 1:3 treated with 2 coats hot tar on top & blinded with fine sand

Schedule of Finishes

Element	Finishes	Description	
Walls	Internal plaster	16 mm thick in cement and sand 1:5 finished smooth	
	External Plaster	12 mm thick in cement and sand 1:5 finished semi rough	
	Internal Painting	One coat of pillar and two coats of emulsion paint of approved	
		colour and quality	
	External Painting	One coat of pillar and two coats of weathershield paint of	
		approved colour and quality	

Question No 01

Take off quantities for the substructure using **Annexure 01** and the given Specifications (You are **not required** to take off quantities for Dry earth filling, DPM and floor concrete)

(60 Marks)

Question No 02

Take off quantities for the wall finishes with necessary deductions using **Annexure 01** and the given Specifications and schedule of finishes.

(20 Marks)

Question No 03

Prepare bar bending schedule for the given beam details in Annexure 02. You are required to provide all the length calculations and assumptions neatly.

(20 Marks)