

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF BUILT ENVIRONMENT
BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE
PART II SUPPLEMENTARY EXAMINATIONS – JULY 2014
CONSTRUCTION ESTIMATES AND PRICING – AQS2205

Time: 3 Hours

Total Marks: 100

Instructions

Answer Question 1 and any other Three (3).

QUESTION ONE

- a) Identify and explain the roles of members of an estimating team (10 marks)
- b) Explain how the following factors affect the accuracy of cost estimates
- I. Wage agreements (3 marks)
 - II. Market prices of basic material (3 marks)
 - III. Availability of money (3 marks)
 - IV. Location of site (3 marks)
 - V. The demand of construction (3 marks)

QUESTION TWO

- a. Explain the estimator's considerations in computations for general overheads and profit for a typical construction project (15 marks)
- b. Identify and discuss the sources of information for a cashflow forecast for a typical construction projects (10 marks)

QUESTION THREE

A variation order has been given by the Architect and the following changes are required to be priced.

Original description and rate: One brick wall in facings in stretcher bond to superstructure in cement mortar (1:4) - 50m² @ \$65.00/m²

Variation order: One brick wall in common bricks in stretcher bond to superstructure in cement mortar (1:4) - 50m²

Additional information:

Face bricks - \$350.00/1000, common bricks - \$180.00/ 1000, cement - \$12.00/bag,

sand - \$20.00/ m³

Productivity Outputs

Bricklaying in face brick- 30 bricks/ hour

Bricklaying in common brick- 45 bricks/ hour

Calculate the new rate for the variation. All assumptions made should be clearly stated

(25 marks)

QUESTION FOUR

- a) Explain the three estimating methods considered under single-rate approximate estimating (15 marks)
- b) Discuss the possible sources of error in construction estimates (10 marks)

QUESTION FIVE

Discuss, with the aid of examples, the components of a Unit Rate (25 marks)

END OF EXAMINATION