



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF QUANTITY SURVEYING

BUILDING CONSTRUCTION

AQS2201

Main Examination Paper

MAY 2015

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: Nil

Examiner's Name: Mr M Mukawa

INSTRUCTIONS

1. Answer any four (4) questions
2. Each question carries 25 marks
3. Where information is insufficient, candidates should make stated assumptions

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25

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Question One

- (a) State four properties of an ideal damp proof material [4]
- (b) Illustrate three levels on a building where damp proofing is required [6]
- (c) Differentiate temporary and permanent ground water control [5]
- (d) Discuss two methods of permanent exclusion of ground water [10]

Question Two

- (a) With the aid of clearly labeled diagrams, compare and contrast asphalt tanking and dense monolithic concrete basement construction methods [20]
- (b) State the advantages of drained cavity basement construction [5]

Question Three

- (a) State the economic essentials of formwork [5]
- (b) Outline the precautionary measures in any demolition work [5]
- (c) Explain three methods of demolition [15]

Question Four

- (a) Explain the purpose of using construction plant/equipment on sites [6]
- (b) Briefly describe two ways of acquiring construction plant [4]
- (c) Identify and discuss any three earthmoving/excavation plant clearly stating their uses [15]

Question Five

- (a) State three reasons of underpinning [6]
- (b) Discuss, with the aid of diagrams, any one method of underpinning [10]
- (c) Discuss the method of temporarily supporting a building/structure which is showing signs of failure before correctional measures are carried out [9]

END OF EXAMINATION