

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF QUANTITY SURVEYING
BACHELOR OF QUANTITY SURVEYING (HONOURS) DEGREE

PART II SUPPLEMENTARY EXAMINATIONS – OCTOBER 2009

AQS 2210 –BUILDING DESIGN ECONOMICS

Time: 3 Hours

Total Marks: 100

Instructions

Answer ANY Four Questions.
All Questions Carry Equal Marks.

Question 1

Explain how the following building design factors affect the cost of a building project:

- a) Plan shape (6 marks)
- b) Height of building (7 marks)
- c) Storey height (6 marks)
- d) Floor loading (6 marks)

Question 2

- a) Using examples explain the process of cost planning of a building project (20 marks)
- b) Write brief notes on a feasibility study (5 marks)

Question 3

Explain the sources of finance for private and public developments (25 marks)

Question 4

- a) Building design economics is concerned with satisfying the client's requirements. Explain the constituents of the client's requirements (20 marks)
- b) What is meant by 'value for money' in design economics (5 marks)

Question 5

- a) What are the cost targets for the following?
 - i) Private developers (7 marks)
 - ii) Public developers (7 marks)
 - iii) Mixed developers (7 marks)
- b) Show how cost benefit analysis can be used to evaluate projects for social development (4 marks)

Question 6

Discuss the factors that constitute a budget for building works (25 marks)