



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY
DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

QUANTITY SURVEYING

MODULE: Construction Project Feasibility Study PAPER NO: 575/23/M01

DURATION: 3 Hours

MAY/JUNE 2024 EXAMINATION

REQUIREMENTS

Answer booklet and calculator.

INSTRUCTIONS TO CANDIDATE

- 1. Answer ANY FOUR questions.**
- 2. All questions carry equal marks.**

This paper consists of 3 printed pages.

QUESTION 1

Discuss five types of feasibility studies in the construction industry.
(25 marks)

QUESTION 2

- (a) Elaborate on the basic steps in a cost benefit analysis. (10 marks)
- (b) Calculate the NPV of a project, the purchase price of \$88 million which will generate the following cashflows using a discounted rate of 10%

Year	1.	20 000 000	
	2.	40 000 000	
	3.	44 000 000	
	4.	22 000 000	(10 marks)

- (c) Explain the objectives of planning. (5 marks)

QUESTON 3

- (a) Outline six advantages of using bar charts. (6 marks)
- (b) Explain:-
- (i) Form of tender (5 marks)
 - (ii) Schedule of works (6 marks)
 - (iii) Gross elasticity (5 marks)
- (c) Explain three factors that influence the accuracy of an estimate. (3 marks)

QUESTON 4

- (a) Using the storey enclosure method, use the information below to find the cost of the building.
- Height of the building = 8 storey
 - Floor area = 900m²
 - External wall = 4500m²
 - Foundation = 2 800m²
 - Rate per square metre = \$108/m² (14 marks)
- (b) Outline four advantages of owning plant (4 marks)
- (c) Explain seven benefits of using Gantt charts (7 marks)

QUESTION 5

- (a) Outline seven sections found in a feasibility report. (7 marks)
- (b) Explain eight factors that a construction company considers before deciding to tender for a project. (16 marks)
- (c) An amount invested at a rate of 25% per annum compounded annually amounts to \$7812,50 at the end of 2 years. Find the amount invested. (2 marks)

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