



**ZIMBABWE**

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

**HIGHER EDUCATION EXAMINATIONS COUNCIL  
(HEXCO)**

**NATIONAL DIPLOMA**

**IN**

**ALL CIVIL ENGINEERING COURSES**

**SUBJECT: Project Management**

**PAPER NO: 578/15/S11**

**DURATION: 3 Hours**

**MARCH/APRIL 2021 EXAMINATION**

**REQUIREMENTS**

1. Answer booklet
2. Calculator

**INSTRUCTIONS TO CANDIDATE**

**Answer any 4 questions**

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*This paper consists of 2 printed pages.*

QUESTION 1

Discuss the five stages of construction planning and give the reasons behind each level of planning in the successful implementation of the project.

(25 marks)

QUESTION 2

a) State any 4 methods of tendering and describe any two of them.

(10 marks)

b) Compare between selective and negotiated tendering. (10 marks)

c) Write brief notes on package deal contracts and cost reimbursement

(5 marks)

QUESTION 3

Briefly discuss the following methods of approximate estimation giving the advantages and disadvantages of each method:

a) Cube method

(9 marks)

b) Superficial floor area method

(8 marks)

c) Cost per unit

(8 marks)

QUESTION 4

Briefly discuss the following as they are used in project management

a) Gantt chart

(5 marks)

b) Suretiesin

(5 marks)

c) Contract

(5 marks)

d) Cashflow

(5 marks)

e) Quality

(5 marks)

QUESTION 5

a) Define cost and explain any 5 systems that are used to control costs in the construction industry

(12 marks)

b) Define the term critical path method and give importance of planning

(13 marks)

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