



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION

BUILDING CONSTRUCTION

PTE2281

MAIN First Semester Examination Paper

May 2019

This examination paper consists of 2 pages

Time allowed: 3 hours

Total Marks: 100

Special requirements: NONE

Examiner's name: Mrs D. Chasokela

INSTRUCTIONS

1. The paper has 2 printed pages.
2. Each question carries 25 marks.
3. Answer any 4 questions.
4. Start your answer for each question on a fresh page.

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3	25
4.	25
5.	25
TOTAL	100

QUESTION 1

- (a) What are the 6 functions of foundation building? **[6 marks]**
- (b) Demonstrate how English bond and Flemish bond are made. **[9 marks]**
- © Discuss subsoil investigations and its importance. **[10 marks]**

QUESTION 2

- (a) Briefly explain the 5 finishes that are applied to solid ground floors in construction. **[5 marks]**
- (b) Illustrate solid ground floor and suspended timber ground floor using sketches. **[20 marks]**

QUESTION 3

Sketch and criticize the following types of roofs; shed, flat, dormer, curved and hip. **[25 marks]**

QUESTION 4

Discuss 5 walling material in building construction. **[25 marks]**

QUESTION 5

- (a) Residential and lightly loaded structure requires which types of soil?**[4 marks]**
- (b) Explain how rising damp can be restricted from entering inside a building. **[5 marks]**
- (c) Examine merits and demerits of solid ground floor and timber ground floor. **[16 marks]**

END OF EXAMINATION