



UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND CONTINUING
PROFESSIONAL DEVELOPMENT (ITECPD)
END OF SECOND SEMESTER EXAMINATIONS, OCTOBER, 2024



COURSE CODE: JBH 243

COURSE TITLE: CONSTRUCTION TECHNOLOGY I

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER:

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GENERAL INSTRUCTIONS:

- This paper is made up of ONE SECTION.
- The Section is made up of five essay type questions.
- Answer any THREE questions in your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to hand over your answer booklet to the invigilator before you leave the examination hall.

Instruction: Answer any three (3) questions in the answer booklet provided.

Q1

(a) Briefly describe the uses of the following types of cement

- Ordinary Portland cement
- Rapid-hardening Portland cement:
- Low heat Portland cement:
- Quick-Setting Cement

(8 marks)

(b) What do you understand by land development?

(2 marks)

(c) as a building engineer, briefly outline any four challenges of land acquisition in Ghana

(4 marks)

(d) Describe any three cutting tools used in construction and give one use of each
(6 marks)

Q2

A. You have been asked by your head Teacher to lead a group of construction students to mould blocks for the construction of a urinary pit. Briefly describe step by step how a block is moulded in the workshop. (8 marks)

B. Outline and explain the activities involved in the production of concrete (12 Marks)

Q3

A. You have been contacted by a prospective client on how to develop his piece of land. As an expert, briefly take him through the processes involved in developing the land (10 marks)

B. State and explain any **three (3)** methods of curing concrete after production (6marks)

C. List **four (4)** ways by which concrete can be transported after production (4) marks

Q4

A. As contractor, briefly outline any three sources by which you can obtain your fine Aggregates for your construction work. (6 marks)

B. Write brief notes on the following personnel in the construction team:

(i) Architect

(ii) Contractor

(iii) Sub-contractor

(6 marks)

C. Briefly outline four main ways by which an individual can have ownership to a piece of land in Ghana (4 marks).

D. As a building contractor, describe four qualities that a good coarse aggregate must possess before it is used in concrete works. (4 Marks)

Q5

A. What do you understand by the term Binding agents? (2 marks)

B. Mention any **three (3)** binding agents used in the mixing of mortar and concrete on the construction site. (3marks)

C. Briefly state **five (5)** advantages that precast concrete has over mass concrete on the construction site (5 marks)



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