



UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND CONTINUING
PROFESSIONAL DEVELOPMENT (ITECPD)



END OF FIRST SEMESTER EXAMINATIONS, APRIL, 2024

LEVEL 300

COURSE CODE: JBH355

COURSE TITLE: CONSTRUCTION TECHNOLOGY II

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER.

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GENERAL INSTRUCTIONS:

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- 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. With aid of Sketches illustrate how setting out of a gauge for concrete floor construction is done 7 marks
- B. Describe **FOUR** main steps involved in the processes of casting an oversite concrete 8 marks
- C. Explain **TWO** importance of the following activities in building construction.
- i) Batching of materials 2 ½ marks
 - ii) compaction of concrete 2 ½ marks

Q2

Q2 A. With the aid of sketches, describe the following methods for termination of a wall.

- i. ii) Toothing method
- ii. ii) Racking back method
- iii. iii) Block indent

12 marks

B. Explain **TWO** uses of stones in the building industry

2 marks

C. Explain the following effect in the concrete production

i) Segregation

ii) Bleeding

6 marks

Q3

A. Outline **FOUR** functional requirements of a good mortar for construction work

4 marks

B. As a career technology teacher discuss the skills and procedure for mixing mortar manually to basic eight (8) pupils.

6 marks

C. State any **FOUR** types of a wall

4 marks

D. Describe the four walls mentioned in 3c above.

6 marks

Q4

A. Describe **FOUR** functions of sand in a concrete mixture

4 marks

B. Explain **FOUR** factors that can ensure good quality concrete production

6 marks

C. Sketch to show the following parts of a wall

i) lap

ii) Bed joint

iii) Perpend

6 marks

D. Explain the difference between rendering and plastering of a wall

4 marks.

Q5

A. Explain with one example each the following components of lesson plan

ii) lesson indicators

iii) Relevant previous Knowledge

iv) Strands

v) Evaluation

10 marks

B. Outline any **FIVE** merits and demerits of demonstration methods of teaching technical skills

10 marks