



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



END OF SECOND SEMESTER EXAMINATIONS, OCTOBER, 2024

LEVEL: 400

COURSE CODE: JBH 484

COURSE TITLE: CONSTRUCTION TECHNOLOGY III

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 will need manuscript sheets for this paper.
- 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.

- 1(a) Use examples to explain the difference between permanent and temporary structures. **4 marks**
- (b) Discuss **four(4)** factors that determine choice of materials for construction. **8 marks**
- (c) Explain the importance of factors in choosing the materials for construction. **8 marks**

2. Discuss how the following concrete production practices can be employed to produce a concrete floor of a 3-storey building.

- (i) Batching
- (ii) Mixing
- (iii) Transporting,
- (iv) Placing
- (v) Curing

20 marks

3. (a) Describe any **four (4)** factors to be considered for selecting a site for a building project **4 marks**

(b) Sketch the substructure and name the following parts:

- (i) Foundation concrete
- (ii) Hardcore filling
- (iii) Footing course
- (iv) Oversite concrete

16 marks

4. (a) Illustrate the front elevation of the following bonds up to four courses in construction technology;

- (i) Stretcher bond
- (ii) Header bond
- (iii) English bond

12 marks

(b) Discuss the uses of these bonds

4 marks

(c) Outline **four (4)** principles of a good wall construction

4 marks

5. (a) With the aid of sketches show the following types of foundation and state the situation in which they are employed **4 marks**

- (i) Pad foundation
- (ii) Strip foundation
- (iii) Raft foundation
- (iv) Pile and beam foundation

(b) Discuss any **two (2)** reasons we should have a good drainage system in our communities.

4 marks



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