

**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA**  
**SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION**  
**DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION**  
**(BUILDING TECHNOLOGY OPTION)**  
**FIRST SEMESTER EXAMINATION 2019/2020**

**Course Code:** ITE 347

**Course Title:** Building Construction III (Superstructure)

**Instruction:** Answer Four Questions Only

**Time:** 2 Hours

**Level:** 300

- 1) a. With the aid of neat diagram show the plan of odd and even number courses of the following: i. Flemish Bond ii. English Bond iii. Header Bond iv. Stretcher Bond  
b. Differentiate between bonded and unbounded walls
- 2) a. Outline five (5) functional requirements of wall and two (2) advantages of cavity wall.  
b. Differentiate between load bearing and non load bearing walls
- 3) a. With the aid of simple free hand sketch show a cross section of substructure and superstructure of a building  
b. State the advantages and disadvantages of brickwork over block work
- 4) a. State five (5) types of staircase and briefly explain one  
b. Explain the performance requirement of window in a building and explain one type of window by opening method.
- 5) a. Explain the primary function of bridging an opening in a building and with the aid of a diagram show one type of opening in wall  
b. Mention five (5) different types of doors and briefly explain one
- 6) a. Enumerate five (5) functional requirements of a roof  
b. Discuss the processes involved in the production of sand-crete block in Nigerian Block Industries.