

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
SCHOOL OF ENVIRONMENTAL TECHNOLOGY

DEPARTMENT OF ARCHITECTURE  
Second Semester Examination 2017/2018

Course Title: Construction Technology III Course Code: ARC 323

Lecturer: Arc. Isah, A. Mann

Time allowed: 2 hours

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Instructions: Answer Question 1 and any other 2 Questions.  
Each question carries equal marks

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**QUESTION 1**

- (i) Neatly illustrate and describe the parts of a bamboo
- (ii) Outline at least four advantages in the use of bamboo?
- (iii) What is a frame structure in building construction?
- (iv) With the aid of sketches, describe the two types of frame structure in building Construction

**QUESTION 2**

- (i) What is cladding in building construction?
- (ii) Describe the main advantages of frame curtain wall
- (iii) Neatly illustrate and describe how to use bamboo as cladding in building construction
- (iv) Describe three different ways on how to design partition walls

**QUESTION 3**

- (i) What is a "roof cover" in building construction?
- (ii) Outline 5 primary functions of roof cover in buildings
- (iii) With the aid of sketches give the detail annotations of corrugated roofing sheets and importance of such details in building construction
- (iv) Outline factors that can lead to the deformation of concrete

**Question 4**

- (i) What is a flat roof in building construction?
- (ii) Outline five (5) advantages of a flat roof
- (iii) Using sketches, outline the four types of flat slabs in building Construction
- (iv) Outline the difference between one-way and two-way slab using a table