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**DEPARTMENT OF ARCHITECTURE SCHOOL OF ENVIRONMENTAL TECHNOLOGY
FEDERAL UNIVERSITY OF TECHNOLOGY MINNA.**

SECOND SEMESTER EXAMINATION 2018/2019.

COURSE CODE: ARC.228

COURSE TITLE: CONSTRUCTION MATERIAL II

COURSE LECTURER: Arc. J.U. ANIYA

DEPARTMENT: ARCHITECTURE

LEVEL: 200

TIME: 2HRS

INSTRUCTION: ANSWER QUESTION 1 AND ANY TWO QUESTIONS

1 a. With the aid of sketches and detailed explanation write on the followings.

- I. Aggregates
- II. Concrete
- III. Reinforced Concrete
- IV. Reinforcements
- V. Pre-stressed Concrete

15 Marks

b. List Ten (10) Building Components of reinforced Concrete used as an application of building materials in the construction industry.

15 Marks

2. Write comprehensively on the following two different types of metals, stating their application and differences.

- I. Ferrous Metals
- II. Non - Ferrous Metals

15 Marks

3. i. Give a brief explanation of Metals Used in the Construction Industry. (5 Marks)
ii. Write briefly on Plastics and List Ten (10) different applications. (10 Marks)

4. Write brief notes on the followings:

- i. Thermoplastic, ii. Mild Steel, iii. Tensile Steel
- iv. Cellular Plastic, v. Asphalt, vi. Bituminous Felt
- vii. Aluminum viii. Roll Section of Steel
- ix. Production of Steel xi. Properties of Aluminum

15 Marks