

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

**First Semester 2019/2020 Session Examinations**

**ARC 213 (Descriptive Geometry)**

**Name of Lecturer: S. A. Kolo**

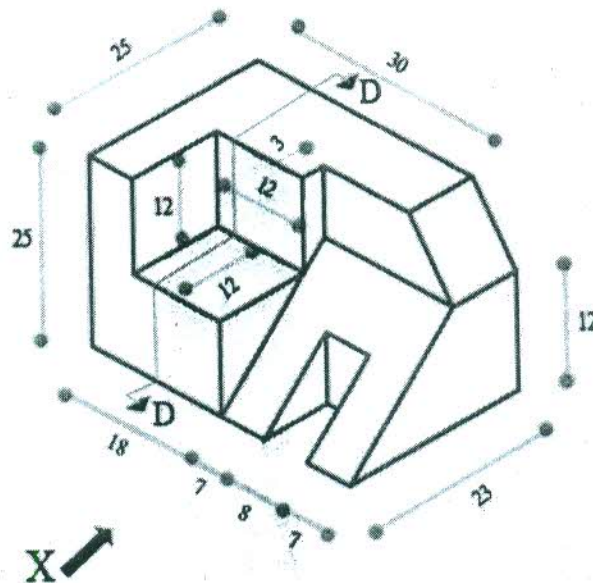
**Head of Department: Dr. P. Ayuba**

Instructions: Answer any three (3) Questions in Total; question one (1) is Compulsory and any other two (2).

**Time allowed: 2 hours.**

1. An Isometric block is given below; use it to produce the following in third angle orthographic projection (all dimensions in mm):

- a. A front view in the direction of the arrow 'X' (10 marks)
- b. A Top view (10 marks)
- c. End views (10 marks)



- 2a. Briefly explain what Rendering is in Architecture. (5 marks)
- 2b. With the aid of sketches, explain what shade and shadow are in rendering. (10 marks)

3a. Explain what you understand by 'Descriptive Geometry'

(5 marks)

3b. How is Descriptive Geometry relevant in Architecture?

(10 marks)

4a. With the aid of sketches, explain the following terms in perspective drawing

(5 marks)

i. Cone of vision ii. Horizon iii. Vanishing points iv. Picture plane v. Station point

4b. Produce a well rendered one-point perspective of your 200L architectural studio (10 marks)

*All the Best.*