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

SECOND SEMESTER EXAMINATION 2018/2019 SESSION

**COURSE CODE:** ARC 241      **UNITS:** 3;    **TIME ALLOWED:** 2HOURS 30MINS

**COURSE TITLE:** ELEMENTS OF ARCHITECTURE      **LECTURER:** DR. J. C. EZE

**HEAD OF DEPARTMENT:** Dr. P. Ayuba

**INSTRUCTIONS:**

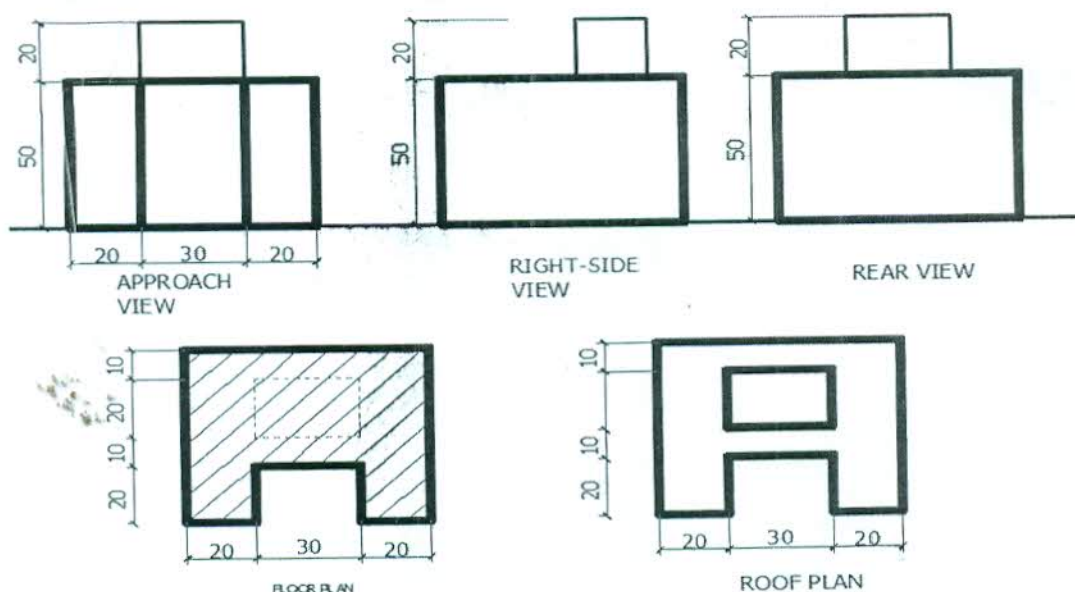
Attempt Question No.4 and any two others from section A. All drawing sheets must be paneled. Neat drawings attract marks.

**SECTION A**

- 1(a) What do you understand by Architectural Graphics? 5 Marks  
(b) Technical graphics has been found useful in the design process? Discuss. 9 Marks  
(c) Itemize the basic elements of technical drawing. 6 Marks
2. With the aid of illustrative diagrams, discuss the following:  
(a) Outline any five (5) dimensioning rules you know. 15 Marks  
(b) Axonometric Projection 5 Marks
- 3(a) What is the difference between freehand drawing and technical drawing? 4 Marks  
(b) Mention 5 types of lines, symbols and their uses. 10 Marks  
(c) With the aid of an illustrative diagram, explain is the difference between shades and shadows 6 Marks

**SECTION B**

- 4(a) What is perspective drawing? 2 Marks  
(b) List four terms used in perspective drawing. 6 Marks  
(c) Given below the following data of an object in figure 1. Use this data to draw the object in isometric view. 12 Marks



**FIGURE 1.** All dimensions are in millimetres.