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Federal University of Technology Minna School of Environmental Technology Department of Architecture Second Semester Examination 2017/2018

Course Title: Elements of Architecture

Course Code: ARC 241

Lecturer: A. M. Sani

H.O.D.: Dr. P. Ayuba

Credit Units: 3
Time allowed 2¹/₂ hours

Instructions: Question number 5 is compulsory. Answer three (3) in all. Each question carries equal marks. Neat drawings attract marks.

- 1. A, Expatiate on the term "graphic communication" in the context of Architecture / Engineering? 5 marks
- b. Illustrate and explain the following types of lines and their application: (I) Thick continuous lines (ii). Thin continuous lines (iii). Thin double lines with waves (IV). Thin chain lines with two dots (v) Thin Chain lines 10 marks
- 2. a. State the types and sizes of paper used in Architectural drawings (10 marks).
- b. Expatiate on the biggest step towards the domain knowledge of CAD in Architecture. (3 marks)
- c. Enumerate 4 (four) features of CAD that are relevant to Architectural practice (4 marks)
- d. Highlight the basic methods of depicting perspective drawing 3marks, (Totalling 20 Marks)
- 3. a. Elaborate on the phrase Architecture determinant as it relates to Architectural practice (9 marks)
- b. what is dimension? List dimension types known to you.

(5 marks)

- c. Discuss the following: (i) Floor plan (ii) section (iii) Headroom (iv) Sectional Types (6mark) (Totalling 20 Marks)
- 4.a. Draw the architectural plan symbol for the following doors and windows: (i) Roller shutter door (ii) Single swing door (iii) casement window (6 marks)
- b. illustrate the following building symbols on a single sketch: (i) oversite concrete (ii) hard-core (iii) compacted backfill (iv) foundation footing and foundation base (v) Super structural walls (10 marks)
- c. Elaborate on two architectural requirement of any building (4 marks), (Totalling 20 Marks)
- 5. Reproduce the working drawing overleaf by projecting the under listed plans;
- a. Ground Floor plan (10 marks) (b). Roof plan (2 marks) (c). Section C-C (6 marks). (d). Elevation Approach Elevation. (2 marks) all in scale 1:50mm. (Totalling 20 Marks)

Good luck