

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA.
DEPARTMENT OF INDUSTRIAL AND TECHNICAL EDUCATION
FIRST SEMESTER 2012/2013 SESSION

COURSE CODE: BUD 512 CLASS: 500 LEVEL TIME ALLOWED: 2HRS 30MINS.
COURSE TITLE: TECHNICAL & ARCHITECTURAL DRAWING.
INSTRUCTION: ATTEMPT ANY FOUR (4) QUESTIONS. QUESTION NO. 1 IS COMPULSORY.

- Q1. Drawing No. FUT/ITE/011 shows the plan view and section A-A of a student Builder's one bedroom flat. Project the following elevations from the plan view.
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|--------------------------|----------------------------------|
| i. Front elevation | iv. Right side elevation |
| ii. Rear elevation | v. Produce the cross-section B-B |
| iii. Left side elevation | |
- Q2. Explain the following drawing instrument briefly.
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| i. Drawing board | vi. Pencil |
| ii. Tee-square | vii. Drawing set |
| iii. Set-square | viii. Protractor |
| iv. Scales | ix. Drawing pens |
| v. Drawing paper | x. Irregular curves |
- Q3a. List the type of scale used for the following.
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| i. Sketch plan | iv. Component basic sizes |
| ii. Blocked plan | v. Details of construction joint |
| iii. Site plan | |
- Q3b. The drawing office is the heart of any engineering establishment-Explain the need for drawing office practice.
- Q3c. Explain the drawing sheets used by an Architect and list the different sizes of metric drawing paper available.
- Q4. List and explain the component part of a working drawing.
- Q5a. Explain how more Architects are deploying computer in designing buildings for their clients.
- Q5b. Explain the software's used by Architects.
- Q5c. Explain how software's aid the flow of communication between Architects and their consultants.
- Q6a. List TEN materials used for model construction.
- Q6b. List EIGHT procedures for constructing model.
- Q6c. Explain the following roof framing briefly:
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| i. Gable and Valley or Hip and Valley roof. | iv. The rise of a roof. |
| ii. The span of a roof. | v. The pitch of a roof. |
| iii. The run of a roof. | |