

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF TECHNOLOGY EDUCATION
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION
SECOND SEMESTER EXAMINATION 2012/2013 SESSION
BUILDING ENVIRONMENT AND MAN BUD322

INSTRUCTIONS: Attempt only 3 questions. Each question carries equal marks. Time allowed; 2 Hours.

1. A good building design and sound construction does not guarantee the comfort of the occupants. Discuss this in the context of building environment and man (Not more than a page).

- 2a. The purposes of ventilation are basically 3. State them.
b. The effectiveness of natural ventilation for commercial buildings depend on 5 factors. Briefly discuss them.
c. Ventilation systems are of 2 types; Natural and Mechanical. Differentiate them in terms of meaning, benefits and application.

- 3a. Define acoustics and its application in man's activities.
b. Transduction in acoustics operates on certain principles. Mention them.
c. The following are related to sound. Define them in sketches and formula;
i. Sound wave ii. Velocity iii. Frequency

4. Write short note on the following;
a. Discharge lamps
b. Properties of lamp
c. Incandescent lamps

- 5a. There are several types of fan to choose from in ventilation. Sketch 4 types only.
b. Explain 2 factors that should guide the choice of air-conditioning units.
c. Define the term air-conditioning and the major actions involved in the process.