

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
SCHOOL OF HEALTH TECHNOLOGY
DEPARTMENT OF BIOMEDICAL TECHNOLOGY

2013/2014 RAIN SEMESTER EXAMINATION

B.M.T 542: Computer-aided Design of Biomedical Equipment

Instruction: Answer four (4) questions in all.

Time: 2 Hrs

- 1a. Write short notes on any three types of CAD
- b. Mention three characteristics of CAD output
- c. Explain the relationship between CAD and CADD

2a. Explain what is referred to as 3D Model

- b. Briefly explain three ways to effect such as model in (a) above.
- c. Briefly describe the model below and outline the steps to create it.



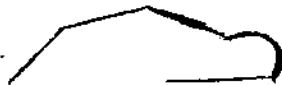
3a. Mention five industrial uses of 3D models.

- b. Mention 2 classes of 3D models and write short notes on each class.
- c. Briefly describe the model below and outline the steps to create it.

4a. Outline how to effect the following in AutoCAD

i. Begin a new drawing

ii.

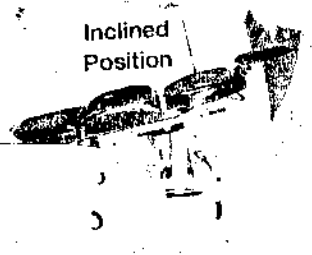


iii Effect the label "3D details of the kidney of an accident victim"

4b. Mention 4 advantages of CAD Software

5a. Draw in details how you would create the design below with Auto CAD.

Inclined
Position



(5b). mention 2 applications of CAD in Biomedical Engineering