

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI

SCHOOL OF HEALTH TECHNOLOGY

DEPARTMENT OF BIOMEDICAL TECHNOLOGY

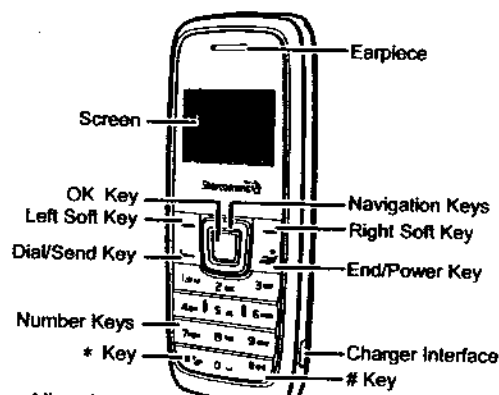
2011/2012 RAIN SEMESTER EXAMINATION

BMT 542: COMPUTER-AIDED DESIGN OF BIOMEDICAL EQUIPMENT

Instruction: Answer four (4) questions in all.

Time: 2hrs

- 1a. Explain the relationship between CAD and CADD.
- b. Mention three characteristics of CAD output.
- c. Describe how to draw a line segment in named CAD software.
- 2a. Mention four advantages of CAD software.
- b. Describe how to effect the following in AutoCAD:
 - i. Draw double line
 - (ii). Begin a new drawing
 - (iii). Type a text
- 3a. What is 3D modeling?
- b. Mention 2 classes of 3D models and write short notes on each class.
4. Describe in details how you would create the design below with AutoCAD.



- 5a. What are the three popular ways of representing a model?
- b. Write short notes on each mentioned in 'a' above
- 6a. Mention five industrial uses of 3 D models
- b. Briefly describe the model below and outline the steps to create it

