## **NATIONAL UNIVERSITY OF LESOTHO**

### **FACULTY OF AGRICULTURE**

### **B.Sc. AGRICULTURE EXAMINATION**

### **CPS 2501- BASIC FARM ENGINEERING**

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JANUARY 2021 MARKS: 100 TIME: 3 HRS

INSTRUCTIONS: Answer all questions.

Number your answers correctly.

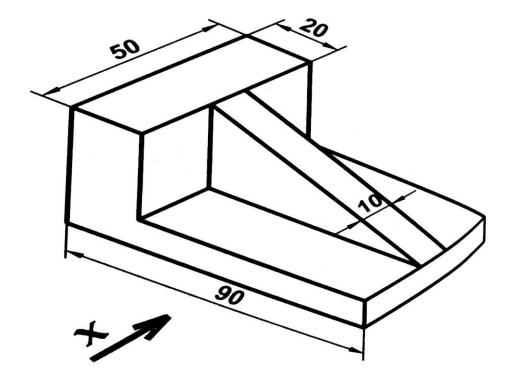
### **QUESTION 1**

- a). Define measurement in technical drawing
- b). Explain two systems used in measurements
- c). Mention five (5) engineering drawing equipment
- d). What are the most important guidelines for dimensioning

(20)

### **QUESTION 1**

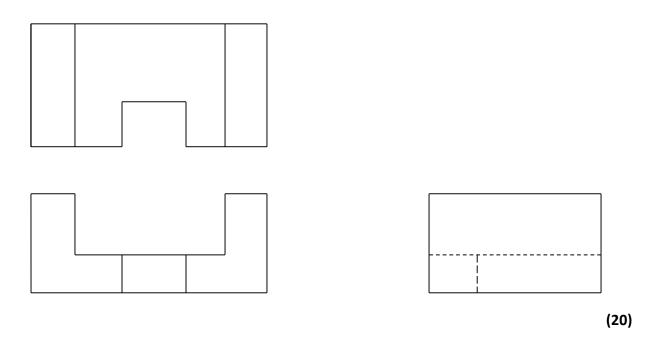
Draw the orthographic view of the diagram below (ignore the measurements):



(20)

#### **QUESTION 2**

Draw the isometric view of the diagram below:



### **QUESTION 3**

The following message was sent to you as extension personnel by a farmer:

"I wish to plan a farmstead where I will carry on farming activities; I request assistance as to how I should **plan** the farmstead. I am going to engage in the production of fruits and vegetable; livestock (piggery, poultry; dairy cows) and off course also I will stay on the farmstead".

You are to outline all issues this farmer should take into consideration when planning his farmstead. And also provide him with a model farmstead sketch which can give him an idea as to how it should look like.

(20)

# **QUESTION 4**

Mention 4 different types of roofs for farm structures and provide the advantages and disadvantages of each type.

(20)