

# **NATIONAL UNIVERSITY OF LESOTHO**

**FACULTY OF AGRICULTURE**

**B.Sc. AGRICULTURE EXAMINATION**

**CPS 417 – HARVEST AND POST-HARVEST TECHNOLOGY**

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**JANUARY 2021**

**MARKS: 80**

**DUE: Saturday 23/01/2021  
(on or before 11.00 a.m.)**

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**INSTRUCTIONS:**      **Answer all questions.**

**Number your answers correctly.**

**QUESTION 1**

A Technical Officer for combine harvester operations monitors the performance of combine wheat harvesting and finds the following:

- a) Uncut crop where the combine has passed.
- b) Cut wheat heads with grain.
- c) Loose grain at the back of the combine harvester.
- d) Foreign material in the grain tank.

What actions should he/she recommend to remedy the situation? **(20)**

**QUESTION 2**

Calculate moisture removal for drying one (1) unit of hay at 50% Wet Basis to 30% Wet Basis.

**(20)**

**QUESTION 3**

Discuss five (5) factors that affect the shelf life of fruits and vegetables. **(20)**

**QUESTION 4**

*“I wish to construct a storage facility for my grain produce, please assist with the following information:*

- *What parameters should I take into consideration for y facility to store grain adequately?*
- *What conditions should I take into consideration in determining the type and size of storage?*
- *What common type of storage can I look (explain5 types for me to choose from)*

Formulate answers to the above request from a farmer. **(20)**