

Module 5
Optimising household food production
Module code: PHFS05P



TUTORIAL LETTER 101&102/2011

Tutorial letter 101&102: Assignment 1 and Assignment 2

READ THIS LETTER CAREFULLY

It contains important information on the assignments

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Programme Household Food Security
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INTRODUCTION

TUT 101 contains important information regarding the assignments for Module 5.

This letter also contains Assignments 01 and 02 for Module 5, so after you have carefully read it, immediately start working on the assignment

1. ASSIGNMENTS: GENERAL INFORMATION

You will receive **two** Tutorial Letters for this Module 5 PHFS05P. This Tutorial Letter 101 has Assignments 1 and 2 at the end of it. These assignments are **compulsory**. Portfolio Assignment 3 will be found in Tutorial Letter 103.

Please start working on your assignment well in advance of the due date. You have to submit the assignment the next session after discussing the relevant units, so do not delay!

1.1 What are the submission dates for assignments?

The submission dates for all the assignments for Module 5 are given in the table below. You can keep a record of the dates when you need to submit your assignments.

Assignments	Work covered by the assignment	Assignment due date	Assignment submitted Mark with \checkmark
Assignment 01	Unit 1 of Module 1	12 March 2011	
Assignment 02	Units 2 &3 Module	26 March 2011	
Assignment 3	Unit 4 Portfolio Final	30 April 2011	

1.2 What happens if assignments are submitted late?

You are aware of the importance of submitting your assignments on time, but are there exceptions to the rule? An extension can be agreed between you and your lecturer/promoter in case of sickness and under exceptional circumstances.

IMPORTANT NOTICE

However if assignments are handed in late without an agreed extension you will forfeit 10% of the total marks allocated.

1.4 What are general instructions regarding the assignments?

- (1) Use only the cover provided for doing the assignments (but do not post)
- (2) Each page must be very clearly numbered.
- (3) Answer the questions in the same order as they are given, and make sure that you number them correctly.
- (4) **Do not write in the space reserved for tutorial comments.**
- (5) Specify the module code and assignment number in all enquiries about assignments.

1.5 How should you submit an assignment?

Assignments should be submitted to HFS promoter for marking with a cover sheet and in an envelope. The assignments will then be moderated by lecturers at UNISA.

IMPORTANT NOTICE

It is important for you as the student to submit the assignment to the promoter. No assignment should be posted directly to UNISA address or the HFS Programme Office at UNISA. The assignments will be sent by the promoter to the HFS Programme office to be moderated by the lecturer and your mark to be recorded on the UNISA mark system.

The submission of assignments by fax or e-mail is not allowed.

2. ASSIGNMENT 01: DUE DATE: 12 March 2011

For this assignment you need to study **Unit 1 of Module 5**. It is advisable to keep a copy of your answers you submit.

QUESTION 1

1. Give a definition or explanation of the following words or concepts:
- 1.1 Sustainability (2)
 - 1.2 Economically viable (2)
 - 1.3 Ecologically sound (2)
 - 1.4 Socially just (2)
 - 1.5 Humane (2)
 - 1.6 Adaptable (2)

QUESTION 2

- 2.1 Give a definition of a system and explain what boundaries, inputs, outputs and sub-systems are. Use examples to augment your explanations. (8)

QUESTION 3

- 3.1 List the Low External Input Farming principles and give an example of each. (16)

LEIF principles	Examples

- 3.2 Use your own words to briefly describe a cyclic flow pattern. Use an example that clearly indicates the cycle and the flow of such a pattern. (4)

QUESTION 4

- 4.1 Give a short description of the production system used by Mr SS Matlere (mentioned in the Case Study of a homestead farming system) (7)
- 4.2 Give a definition of small scale farmer experimentation. (3)

TOTAL: 50 MARKS

END OF ASSIGNMENT 01

3. ASSIGNMENT 02: DUE DATE: 26 March 2011

It is advisable to keep a copy of your answers.

Carefully study Units 2 and 3 of the **Study Guide, Module 5**.

It is of the utmost importance that you get a 'big picture' view (holistic view) of what this module is all about **before** you try to do Assignment 02.

This can only happen when you make a thorough study of the relevant content and summarise each section as you finish with it.

Read the questions very carefully to decide exactly what is expected from you. Well thought-out, critical thinking answers are expected of you.

QUESTION 1

1. Give a definition or description of the following concepts:

- 1.1 Biotic factors in a plant's environment (2)
- 1.2 Abiotic factors in a plant's environment (2)
- 1.3 A habitat (2)
- 1.4 Nutrients (2)
- 1.5 A limiting environmental factor (2)

QUESTION 2

- 2.1 Name the three factors that affect the rate of photosynthesis in leaves. Why is the rate at which photosynthesis happens in a plant important? (5)
- 2.2 Describe the difference between transpiration and respiration. (2)
- 2.3 What nutrients do plants need from the soil and what is the role of each nutrient in the growth and health of a plant? (14)

QUESTION 3

- 3.1 How do rainfall and temperature determine which crops can be grown in an area? (4)

- 3.2 What can farmers/ gardeners do to improve their chances of raising good crops? (5)

QUESTION 4

- 4.1 Describe the difference between companion planting and crop rotation and give an example of each. (8)
- 4.2 Discuss two of the elements/ issues that need to be considered in mixed cropping and give an example of each. (4)

QUESTION 5

- 5.1 What is the role of organic matter in building your soil? (3)
- 5.2 Briefly describe three different vegetable bed design techniques that will improve/build your soil. (9)
- 5.3 Name three more ways in which soil can be improved or built up (3)

QUESTION 6

- 6.1 Explain the function of animal and/or plant liquid manures or teas in vegetable production. (3)
- 6.2 Give an example of each type (animal, plant and foliar spray). Explain what the specific ingredients are good for. (6)

QUESTION 7

- 7.1 Name the four household measures to control pests and diseases. (4)
- 7.2 Give an example of a herb/plant brew that can be used as an insect repellent. Describe briefly how it is prepared and what pests and or diseases are controlled by its application. (10)

QUESTION 8

- 8.1 Briefly describe the difference between sexual and asexual propagation of plants. (6)
- 8.2 Name two different types of cutting and give an example of each. (4)

TOTAL: 100 MARKS

END OF ASSIGNMENT