

Module 3 Sustainable Natural Resources Use

■ Module code: PHFS03M



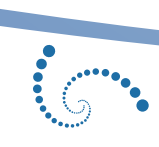
TUTORIAL LETTER 101/2010

Tutorial letter 101: Assignments

READ THIS LETTER CAREFULLY

It contains important information on the assignments

University of South Africa
Programme Household Food Security
College of Agriculture and Environmental Sciences





INTRODUCTION

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INTRODUCTION

We would once again like to congratulate you on being selected as a student on this prestigious programme!

Hopefully you have already read Tutorial Letter (TUT) 301, which is a general information letter introducing you to the programme and which gives you valuable general information on important aspects of the programme. If you have not yet read **TUT 301**, please do so before you continue reading this Tutorial Letter 101 (TUT 101).

TUT 101 contains important information regarding the assignments for Module 3.

This letter also contains Assignments 01 and 02 for Module 3, so after you have carefully read it, immediately start working on the assignments

1. ASSIGNMENTS: GENERAL INFORMATION

There are two assignments for this module and you will find them at the back of this tutorial letter. Both assignments are **compulsory**. You CANNOT, for example, submit only Assignment 01 and receive 90% and then not submit Assignment 02.

Please start working on your assignments well in advance of the due date. You will note from the tutor-facilitated contact schedule in TUT 301 that you only have about 15 days to work on an assignment, so do not delay!

1.1 What are the submission dates for assignments?

The submission dates for all the assignments for Module 3 are given in the table below. You can keep a record of the dates you submit your assignments.

| Assignments | Work covered by the assignment | Assignment due date | Assignment submitted Mark with ↗ |
|---------------|--------------------------------|---------------------|----------------------------------|
| Assignment 01 | Unit 1 of Module 1 | 28 August 2010 | |
| Assignment 02 | Units 2 & 3 Module 1 | 4 September 2010 | |

1.2 Why is it important to submit assignments on time?

One of the reasons why assignments must be submitted on time is given in the block below.



IMPORTANT NOTICE

ALWAYS SUBMIT YOUR ASSIGNMENT TO THE HFS TUTOR

Your assignment must be submitted to the HFS tutor by the date on your schedule at the contact workshop session for it to be marked in time.

PLEASE DO NOT USE THE USUAL UNISA POSTAL ADDRESS OR ASSIGNMENT INSTRUCTIONS

1.3 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/tutor 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 and envelope 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 tutor for marking in a cover sheet and in an envelope. The assignments will then be moderated by lecturers at UNISA.

IMPORTANT NOTICE

This is important for you as the student to submit the assignment to the tutor. No assignment should be posted directly to UNISA address or the HFS Programme Office at UNISA. The assignments will be sent by the tutor 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.

For detailed information and requirements as far as assignments are concerned, you can also consult with the HFS Programme Office. (Refer to your General Tutorial 301).



2. ASSIGNMENT 01

DUE DATE: 28 August 2010

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

QUESTION 1

Distinguish between the following sets of concepts so the difference between them will be clear.

- 1.1 Renewable and non-renewable resources (4)
- 1.2 Indigenous and exotic plants (4)
- 1.3 Producers and consumers in ecosystems (4)

QUESTION 2

- 2.1 Water constantly circulates around our planet moving from the oceans to the skies to the land and back to the oceans again in a pattern called the water cycle.
Name the processes that form part of the water cycle. (4)
- 2.2 Why is it important for a homestead gardener to know about:
 - a) Average rainfall and seasonality of rainfall in their area? (3)
 - b) Aspects and ridges in their area? (3)

QUESTION 3

- 3.1 Soil is the growth medium that supports almost all plant and animal life on land.
What are the different components that are naturally present in healthy soil? (4)
- 3.2 Healthy soil is living soil, with different organisms living and working in it.
 - a) What are the different groups of organisms typically found in soil? (4)
 - b) What are the functions of each group of organisms found in soil? (4)

QUESTION 4

- 4.1 *Biodiversity* is a word we use to describe the large number of organisms (living things) on Earth. Every group of organisms has a particular job to do.
What will happen if human actions destroy all the biodiversity on Earth? (4)
- 4.2 Instead of using non-renewable energy sources it makes better sense to use renewable energy sources that can be replaced as they are used.
 - a) Name three renewable energy sources. (3)
 - b) Which one of the renewable energy resources that you named in the previous question do you regard as the best for your area?
Give a reason for your answer. (2)

QUESTION 5

5.1 When we look at the bigger picture, we see that the sun and the Earth provide us with all the natural resources, as well as important processes that we need for survival.

Name two important processes that the Earth provide us with. (2)

5.2 Write a paragraph to say why it is important for a homestead gardener to understand his or her place in the cycle of nature. (5)

TOTAL: 50 MARKS x 2 = 100%

END OF ASSIGNMENT 01



3. ASSIGNMENT 02

DUE DATE: 4 September 2010

It is advisable to keep a copy of your answers.

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

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

- 1.1 It is said that both the external and internal environments influence what people eat which, in turn influence food security.
What is meant by the 'external' and 'internal' environments, which influences what people eat? (6)
- 1.2 To enhance food security we need to give attention to all four dimensions of the food security model.
What is the link between natural resources and the dimensions of food security? (4)

QUESTION 2

There are a number of participatory methods and tools that can be used to assess the natural and other resources in an area. Regarding natural resources, what are the aims of:

- 2.1 Resource maps? (5)
- 2.2 Transect walks? (4)

QUESTION 3

There are many constraints regarding access to, control over and the use and management of resources.

- 3.1 a) What are three of the major infectious diseases) facing the African continent today and which impact on food security? (3)
- b) How are each one of the diseases you named in the previous question spread from one person to the next? (3)
- 3.2 Explain the link between HIV/AIDS and food insecurity. (5)

QUESTION 4

Constraints regarding natural resources are often gender linked. Give examples of gender linked constraints regarding:

- 4.1 Water (5)
- 4.2 Land (5)

QUESTION 5

Give a definition or explanation of the following words or concepts:

- 5.1 Low input methods as applied to natural resources (2)
- 5.2 Grey water (2)
- 5.3 Erosion (2)
- 5.4 Desertification (2)
- 5.5 Mulch (2)
- 5.6 Deforestation (2)
- 5.7 Permaculture (2)

QUESTION 6

- 6.1 Complete the table below to show what can happen when human actions disturb the water cycle. (9)

| Result of disturbing the water cycle | Explanation |
|--------------------------------------|-------------|
| | |
| | |
| | |

- 6.2 What do you regard as water wise considerations when you plan a homestead garden? (6)



QUESTION 7

7.1 What human actions can have a negative influence on healthy soil? (5)

7.2 Complete the following table on wise practices to conserve the soil. (10)

| Wise practices to conserve the soil | Explanation |
|-------------------------------------|-------------|
| | |
| | |
| | |
| | |
| | |
| | |

QUESTION 8

8.1 Why will it matter if we destroy all our indigenous forests in South Africa? (2)

8.2 According to permaculture principles we should consider planting seven groups of plants in our homestead gardens. What are the reasons for planting these groups? (14)

TOTAL: 100 MARKS

END OF ASSIGNMENT 02

