PART B
FUNDERMENTALS OF ECOLOGY (ZOU 2265)
N.B.T - 2006 / 2007

REGISTRATION NUMBER : ----------

2.

2.1 List the main reservoirs of the elements given below.

Carbon ---------- Sulphur ----------

Oxygen ---------- Nitrogen ----------

Phosphorous ----------

2.2 Indicate the form or forms of the following elements that are found in living organisms.

Carbon ---------- Sulphur ----------

Oxygen ---------- Nitrogen ----------

Phosphorous ----------

2.3 State three basic features of a typical nutrient cycle.

2.4 Explain the role played by the nutrient cycles in nature.

a) ----------

b) ----------

2.5 State the organism / s that involved in the following processes.

Nitrification ----------

Fixation of atmospheric nitrogen into organic nitrogen compounds ----------

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Conversion of H_2S into sulphate groups ----------

2.6 Briefly explain the following processes.

Ammonification ----------

Carbon fixation ----------

De-nitrification ----------

2.7 What are the natural sources of phosphorous ?

2.8 List the main steps involved in the cycling of phosphorous.

2.9 State two methods by which excess phosphates are accumulated in water bodies.

a) ----------

b) ----------

2.10 What can you expect when there is excess phosphates in a water body ?

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2.

2.1 Explain what you understand by the term "Growth" of a closed population.

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2.2 How do you describe the pattern of growth seen in a population having overlapping generations, if the resources are unlimited ?

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2.3 Explain the changes that you would expect, in the growth of a population with overlapping generations if exposed to an environment with limited resources.

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2.4 Describe the pattern of growth curve that you will obtain for the population under the conditions stated in question no. 2.3.

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2.5 State the growth model that matches with the growth pattern indicated in question no.2.4 .

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2.6 Indicate the impact of "Environmental resistance" in reaching the carrying capacity of a population.

2.7 What can you predict about the growth of a population at its carrying capacity ?

2.8 State the factors affecting population regulation at carrying capacity in nature.

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