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The Open University of Sri Lanka
B.Sc. Degree Programme-Level 04-2012/13
PCU2104 – Environmental Studies
Assessment Test I (Open Book Test)

Duration – One (01) hour **Reg. No. .....**

Date: 18th August 2013 **Time: 4.00 – 5.00 p.m.**

Answer all questions on this paper itself.
There are four (04) questions and six (06) pages in this question paper.

01. Given below include both true and false statements. Indicate the true statement by writing **"T"** and false statement by writing **"F"** in the space given in front of each statement.

i. The earth's interior is composed of a series of layers. (.....)

ii. Weathering is restricted to certain land surfaces. (.....)

iii. Soil is the foundation upon which all life depends. (.....)

iv. The atmosphere does not contain any solid material. (.....)

v. Ocean currents exist on the surface of the ocean as well as at great depths in the ocean. (.....)

vi. An organism's "feeding status" in an ecosystem can be expressed as its tropic level. (.....)

vii. Any rock can be modified by great heat and pressures, of geological process and converted to metamorphic rocks. (.....)

viii. Biodiesel is made from vegetable oil, animal fat, or recycled cooking gases. (.....)

ix. The area of land where a stream of river drains is its "catchment area". (.....)

x. Natural gas burns hotter and provides less air pollution than any fossil fuel. (.....)

02. Give the most suitable answer for the following questions.

i. The magnitude of earthquakes is expressed by .....

ii. What will happen when a volcano erupts?

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iii. Soil organic matter is derived from, ...

iv. The atmosphere contains (composition of atmosphere), ...

v. Ocean tides occur as a result of, ...

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vi. Ecological niche is .....

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vii. Name four major nutrient cycles.

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viii. The two fundamental characters of a mineral that distinguish it from other substrates are its,

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ix. The unit for quantifying energy is, ...

x. Photosynthetic (Biomass) energy is, ...

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03.

a. Sketch a conceptual model for phosphorus cycle in the given space.

b. Explain briefly the significance of the phosphorus cycle.

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c. Give a brief explanation of the Trophic Structure.

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d. Explain about the significance of energy pyramids.

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04.

a. What are the major groups of environmental resources which can be recognized?

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b. What are minerals?

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c. Briefly explain on different categories of mineral resources.

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d. Mention the harmful environmental impacts due to mining, processing and using of mineral resources.

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e. When a mineral becomes economically depleted, what are the type of precautions we have to take?

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