



THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF EDUCATION
BACHELOR OF EDUCATION (HONOURS) IN PRIMARY EDUCATION
LEVEL - 05
FINAL EXAMINATION – 2020/2021
EPU5255– SCIENCE AND ENVIRONMENT FOR PRIMARY TEACHING
DURATION – TWO (02) HOURS

Date: 19.02.2023

Time: 9.30 a.m. – 11.30 a.m.

Answer All Questions in Part I and any three (03) questions from Part II.

PART - I

01. Explain the importance of teaching science to primary grade student by giving **three (03)** facts.
02. Describe **two (02)** human activities that influence on imbalance of ecosystems.
03. State **five (05)** characteristics of scientific attitudes.
04. Explain **two (02)** activities that a teacher can conduct to provoke curiosity among primary school students in exploring environment.
05. Explain how you are going to explain the concept of food chain to primary school children by citing an example.
06. Discuss **three (03)** examples that a teacher can use to explain energy conversion to primary school students.
07. Explain **three (03)** facts that a teacher can discuss with primary school children to raise their awareness on the importance of solar energy.
08. 'Protecting biodiversity is very important for the existence of ecosystems.
Justify this statement by citing **three (03)** facts.

(5 x 8 = 40 marks)

PART – II

09. i. Explain the need to conserve energy usage in everyday life by giving **three (03)** reasons. (06 marks)
- ii. Create an activity to teach primary school children about the ways to conserve energy usage in everyday life. (08 marks)
- iii. Discuss **three (03)** strategies that you are going to highlight during the above activity which can be followed by primary students to conserve energy usage in their everyday life. (06 marks)
10. i. Create an activity to teach about the water cycle to primary grade students and explain how the existence and movement of water on in and above the earth occur. (08 marks)
- ii. Describe **three (03)** facts that you are going to use to explain how the human activities damage the water cycle, to primary students. (06 marks)
- iii. Discuss **three (03)** measures that primary students can follow to protect the water cycle. (06 marks)
11. i. Plan a learning activity to raise the awareness of primary children on living things, non-living things in their environment (Explain the learning activity step by step) (08 marks)
- ii. Explain **three (03)** facts that you will discuss with primary students to appreciate the impact of diversity of living and non-living things on the existence of the life. (06 marks)
- iii. Discuss **three (03)** ways that primary children can follow to protect the diversity of living and non-living things in the environment. (06 marks)

12. i. Explain what a lever is by giving an example. (06 marks)
- ii. Propose a learning experience for primary grade students to explain how the energy conversion occur through a lever. (08 marks)
- iii. “All the animals obtain energy which is produced by green plants”
Explain this statement citing an example. (06 marks)
13. i. Explain the main steps in scientific method. (06 marks)
- ii. Plan an activity to introduce “how to solve problems according to the scientific method, to primary grade students. (Explain each step of the learning activity)
(08 marks)
- iii. Discuss **three (03)** types of scientific skills that can be developed in primary students by practicing scientific method in the classroom. (06 marks)

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