

AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS IX EXAMINATION

APRIL/ MAY 2019

Environmental Studies Paper II

Time: 2 hours 15 minutes Marks: 45

INSTRUCTIONS

Please read the following instructions carefully.

1. Check your name and school information. Sign if it is accurate.

**I agree that this is my name and school.
Candidate's Signature**

RUBRIC

2. There are SEVEN questions. Answer ALL questions. Questions 5, 6 & 7 each offer TWO choices. Attempt any ONE choice from each.
3. When answering the questions:

Read each question carefully.
Use a black pointer to write your answers. DO NOT write your answers in pencil.
Use a black pencil for diagrams. DO NOT use coloured pencils.
DO NOT use staples, paper clips, glue, correcting fluid or ink erasers.
Complete your answer in the allocated space only. DO NOT write outside the answer box.
4. The marks for the questions are shown in brackets ().

Q.1. (Total 7 Marks)

a. Aliya has opted to study Environmental Studies in Grade IX.

State any THREE concepts that she will learn by the end of this course. (3 Marks)

b. Describe any FOUR benefits of hydrosphere for living organisms and the environment. (4 Marks)

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Q.2.

(Total 8 Marks)

- a. Locally as well as globally, human activities have disrupted the natural cycling of carbon, nitrogen and many other components of the natural ecosystem.

Mention any FOUR consequences of the disruption mentioned in the given statement. (4 Marks)

- b. Identify and define the levels of ecological organisation shown in the pictures **A** and **B**. (4 Marks)



A



B

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Q.3. (Total 8 Marks)

a. Population projections are estimates of total size or composition of populations in the future.

i. State the basis on which demographers develop population projections. (1 Mark)

ii. Identify any THREE uses of these projections in policy making and city planning by government policy makers and city planners. (3 Marks)

b. Widespread formal education is shaping population dynamics globally. Justify the given statement by mentioning any FOUR positive effects of formal education on population. (4 Marks)

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Q.4.

(Total 7 Marks)

- a. Mention any THREE hazardous effects caused due to poor management of landfills on the environment. (3 Marks)

- b. Exposure to very high levels of radiation can cause acute health effects in human beings. Describe any FOUR of these effects. (4 Marks)

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Q.5. (Total 5 Marks)

EITHER

- a. Understanding environmental studies requires an interdisciplinary approach such as the correlation of Environmental Studies with Chemistry, Ecology and Sociology.

Identify FIVE interdisciplinary concepts (at least ONE with each of the mentioned subjects) in Environmental Studies to support this statement.

OR

- b. Flood, earthquake and hurricane are some of the natural events that cause great damage and loss of life.

Describe any FIVE negative consequences of these natural disasters on the ecosystem of a forest.

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Q.6.

(Total 5 Marks)

EITHER

a.

- i. Name and define any TWO symbiotic relationships. (3 Marks)
- ii. Describe ONE example of each symbiotic relationship. (2 Marks)

OR

b. In an ecosystem, cycling of water takes place in two phases – entry of water to atmosphere and entry of water to land.

Describe each of these phases. (5 Marks)

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Q.7. (Total 5 Marks)

EITHER

- a.
 - i. What is land pollution? (1 Mark)
 - ii. Describe any FOUR human activities that cause land pollution. (4 Marks)

OR

- b. Noise pollution affects both health and behaviour of human beings. Give any FIVE reasons to justify this statement. (5 Marks)

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