

AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS IX EXAMINATION

APRIL/ MAY 2017

Environmental Studies Paper I

Time: 40 minutes Marks: 30

INSTRUCTIONS

1. Read each question carefully.
2. Answer the questions on the separate answer sheet provided. DO NOT write your answers on the question paper.
3. There are 100 answer numbers on the answer sheet. Use answer numbers 1 to 30 only.
4. In each question there are four choices A, B, C, D. Choose ONE. On the answer grid black out the circle for your choice with a pencil as shown below.

Correct Way		Incorrect Ways	
1	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D	1	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D
		2	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D
		3	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D
		4	<input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D

Candidate's Signature

5. If you want to change your answer, ERASE the first answer completely with a rubber, before blacking out a new circle.
6. DO NOT write anything in the answer grid. The computer only records what is in the circles.

1. Environmental studies provides direct career opportunity in all of the following fields EXCEPT
 - A. banking.
 - B. research.
 - C. education.
 - D. agriculture.
2. In agricultural fields, farmers use dichlorodiphenyltrichloroethane (DDT) to kill
 - A. birds.
 - B. pests.
 - C. herbs.
 - D. fungus.
3. All of the following factors cause environmental degradation EXCEPT
 - A. soil erosion.
 - B. biodiversity.
 - C. deforestation.
 - D. noise pollution.
4. Which of the following is FALSE regarding the challenges faced by Pakistan over the years?
 - A. Growing poverty
 - B. Increase in population
 - C. Decrease in urbanisation
 - D. Poorly planned industrialisation
5. Which of the following is a characteristic of the lithosphere?
 - A. It is a source of minerals and fuels.
 - B. It is a shield against solar radiation.
 - C. It is comprised of plants, animals and microorganisms.
 - D. It is a collective mass of oceans and fresh water bodies.
6. The number of apple trees present in an orchid is an example of a/ an
 - A. biome.
 - B. ecosystem.
 - C. population.
 - D. community.
7. Earth is approximately covered by

	Water (%)	Landmass (%)
A	29.2	70.8
B	70.8	29.2
C	40.2	59.8
D	80.8	19.2

8. In an ecosystem, a food chain starts with a

- A. producer.
- B. decomposer.
- C. primary consumer.
- D. secondary consumer.

9. Which organism in the given food chain is a primary consumer?

Rose plant → Aphids → Lady bird beetle → Sparrow

- A. Aphids
- B. Sparrow
- C. Rose plant
- D. Lady bird beetle

10. A considerable amount of water enters into the atmosphere through the process of

- A. respiration.
- B. transpiration.
- C. condensation.
- D. photosynthesis.

11. In the nitrification step of the nitrogen cycle,

- A. soil-dwelling bacteria break down nitrates.
- B. ammonia is converted into nitrites and nitrates.
- C. nitrates are taken up by producers from the soil.
- D. nitrogen containing compounds are decomposed.

12. Carbon enters into the atmosphere through the process(es) of

- I. respiration.
- II. transpiration.
- III. decomposition.

- A. I only
- B. II only
- C. I and II
- D. I and III

13. An increase in the addition of nitrogen containing fertilisers to the soil does NOT result in

- A. oxygen saturation.
- B. nitrogen saturation.
- C. weaker productivity.
- D. destruction of plants.

14. The annual transfer of gaseous nitrogen into the oxides of nitrogen has increased over the years because of the
- A. pollution by vehicles.
 - B. loss of animal habitat.
 - C. cutting down of forest.
 - D. extensive cultivation of rice.
15. Population density is the number of individuals living in area that covers a
- A. metre.
 - B. kilometre.
 - C. square metre.
 - D. square kilometre.
16. To keep a natural balance in the ratio of boys and girls in a population, one should stop
- A. child labour.
 - B. women empowerment.
 - C. gender-based abortions.
 - D. the use of birth control pills.
17. Population doubling time is useful to
- A. project population size.
 - B. demonstrate age distribution.
 - C. understand carrying capacity.
 - D. demonstrate the effect of a growth rate.
18. In linear growth model, the population grows
- A. geometrically.
 - B. exponentially.
 - C. arithmetically.
 - D. instantaneously.
19. All of the following may increase the death rate in a developing country EXCEPT
- A. low health standards.
 - B. depletion of natural resources.
 - C. warfare over scarce resources.
 - D. lack of primary school education.
20. Population projection is independent of
- A. birth rate.
 - B. death rate.
 - C. attitude of people.
 - D. migration of people.

21. The immediate effect of indoor air pollution is
- A. cancer.
 - B. headache.
 - C. pneumonia.
 - D. heart attack.
22. Which of the following emits chlorofluorocarbons in the environment?
- A. Forest fire
 - B. Aerosol spray
 - C. Fuel combustion
 - D. Biological decay
23. The first step of waste water treatment is screening. It helps to remove
- A. grit and stones.
 - B. paper and rags.
 - C. poisonous gases.
 - D. pathogenic microbes.
24. When oxygen level in water decreases, it leads to death of aquatic life. This decrease in oxygen level occurs due to the
- A. oil spilled from ships.
 - B. decomposition of waste by bacteria.
 - C. seepage of heavy metals from industries.
 - D. addition of sulphate particles by acid rain.
25. Which of the following is FALSE about land pollution?
- A. It breeds pests.
 - B. It spreads epidemic diseases.
 - C. It keeps away birds and animals.
 - D. It leads to encroachment of roads.
26. A source of occupational noise is
- A. air traffic.
 - B. land mower.
 - C. loud speaker.
 - D. steam generator.
27. A noise of short duration when machinery operates in cycles is called
- A. domestic noise.
 - B. continuous noise.
 - C. community noise.
 - D. intermittent noise.

28. Which of the following is the LEAST likely to be caused by the excessive use of mobile phones?
- A. Headache
 - B. Tuberculosis
 - C. Brain tumour
 - D. Sleep disturbance
29. The INCORRECT way of disposing radioactive waste is to
- A. burn it in the incineration furnace.
 - B. store it at geologically stable sites.
 - C. seal it in a non-corrosive container.
 - D. store it deep under the ground in concrete vaults.
30. In microwave, food should be heated in containers made up of
- I. ceramics
 - II. plastics
 - III. pyrex glass
- A. I only
 - B. II only
 - C. I and II
 - D. I and III

Please use this page for rough work

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