

DUAT04 Model Question Paper

M.Sc. Ecology / M.Sc. Environmental Science / M.Sc. Environmental Sustainability

Model Set - 10 MCQs

Instructions: Choose the most appropriate answer from the four options given.

1. Identify the grammatically correct sentence.

- A. The researchers was collecting samples near the lake.
- B. The researchers were collecting samples near the lake.
- C. The researchers has collected samples near the lake yesterday.
- D. The researchers collecting samples near the lake.

2. A village had a population of 12,000. If the population increased by 15%, what is the new population?

- A. 12,800
- B. 13,200
- C. 13,800
- D. 14,200

3. Find the next term in the series: 2, 5, 11, 23, 47, ___

- A. 89
- B. 93
- C. 95
- D. 97

4. If $A = \{2, 4, 6, 8\}$ and $B = \{1, 2, 3, 4\}$, then $A \cap B$ is:

- A. $\{1, 3\}$
- B. $\{2, 4\}$
- C. $\{6, 8\}$
- D. $\{1, 2, 3, 4, 6, 8\}$

5. Which of the following is an example of an operating system?

- A. Microsoft Excel
- B. Python
- C. Linux
- D. Google Chrome

6. The greenhouse effect is mainly associated with the trapping of:

- A. Ultraviolet radiation by oxygen
- B. Infrared radiation by atmospheric gases
- C. Visible light by nitrogen
- D. Gamma radiation by water vapour

7. Which of the following is a major component of the lithosphere?

- A. Rocks and minerals
- B. Clouds and rainfall
- C. Ocean currents
- D. Atmospheric gases

8. In an ecosystem, decomposers are primarily responsible for:

- A. Producing food through photosynthesis
- B. Recycling nutrients from dead organic matter
- C. Capturing solar energy directly

D. Preventing all forms of predation

9. Acid rain is mainly caused by atmospheric emissions of:

- A. Oxygen and nitrogen
- B. Sulphur dioxide and nitrogen oxides
- C. Carbon monoxide and methane
- D. Argon and helium

10. Which of the following best represents in-situ conservation of biodiversity?

- A. Preserving seeds in a seed bank
- B. Maintaining animals in a zoo
- C. Protecting species within their natural habitat
- D. Growing rare plants in a botanical garden