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LAND MANAGEMENT
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LAND MANAGEMENT, ENVIRONMENT & SOLID-WASTE: INSIDE EDUCATION AND BUSINESS IN CENTRAL ASIA
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MICRO-CREDENTIAL

CLIMATE CHANGE FOR SUSTAINABLE LAND MANAGEMENT IN CENTRAL ASIA

2- Observed Climate Change and Attribution

Quiz

MCQs on evidence and attribution.

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1. Which statement best describes climate change evidence?

a) A single unusual season is enough to prove it
b) It is based on many independent observations over time
c) Only satellite measurements are reliable
d) Only local experience matters

2. Why do scientists use temperature anomalies?

a) They remove all uncertainty
b) They allow comparison among places with different normal temperatures
c) They make temperatures appear larger
d) They avoid the need for observations

3. Which pair forms the core of the modern global temperature record?

a) Tree rings and ice cores
b) Land stations and sea-surface observations
c) Satellites and social media reports
d) River flow and groundwater

4. Why is homogenization used in climate datasets?

a) To remove real warming trends
b) To correct for non-climatic breaks such as station moves or instrument changes
c) To replace all missing data with averages
d) To make all regions equally warm

5. A warmer atmosphere can generally hold:

a) Less water vapour
b) About the same amount of water vapour
c) More water vapour, increasing heavy-rainfall potential
d) No water vapour during heatwaves

6. Which statement about drought is most accurate?

a) Drought means only low rainfall
b) Drought is a family of related conditions including meteorological, agricultural, and hydrological drought
c) Drought can be measured only with temperature
d) Drought and precipitation are always the same thing

7. Detection asks whether a climate change signal stands out from variability. Attribution asks:

a) Whether weather forecasts are accurate
b) Which causes best explain the detected change
c) Whether climate models use enough data
d) How many stations exist in one country

8. Which finding most strongly supports attribution to human influence?

a) Natural forcings alone reproduce recent warming
b) Recent warming is explained mainly by greenhouse gases, with aerosols offsetting part of the warming
c) Volcanoes explain all warming since 1850
d) No models are needed in attribution

9. Which pattern is considered a fingerprint of greenhouse-gas forcing?

a) Stratospheric warming with tropospheric cooling
b) Ocean cooling faster than land warming
c) Tropospheric warming with stratospheric cooling
d) Equal warming over land and ocean everywhere

10. Why is Central Asia especially vulnerable to climate change?

a) Because the region has no mountains
b) Because warming affects glacier-fed water supply, heat stress, and dryland systems
c) Because precipitation is increasing everywhere equally
d) Because local variability means there is no clear climate signal