Year 10 | Geography

IGCSE-pathway diagnostic assessment • Human and physical processes; resource interpretation

Student name: _____ Date: _____

Suggested time: 60 minutes. Show working and explain your reasoning. This is an independent diagnostic, not an official examination paper.

1. A city’s population rises from 240,000 to 300,000 in ten years. Calculate the percentage increase. [5 marks]

2. Explain two push factors and two pull factors influencing rural–urban migration. [8 marks]

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3. Study this fictional dataset: District A: population density 1,200 people/km², green space 28%; District B: 5,600 people/km², green space 8%. Describe two contrasts and suggest one plausible environmental implication. [8 marks]

4. Explain how impermeable surfaces may increase flood risk in an urban catchment. [7 marks]

5. Assess one advantage and one disadvantage of constructing a dam for a rapidly growing region. [8 marks]

6. A town wants to reduce traffic congestion. Compare improved public transport with building a new road, then justify which should be prioritised. [10 marks]

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Keep this section separate from the student during the assessment. The marks are diagnostic prompts, not an official IGCSE mark scheme.

Suggested responses and assessment notes

1. (5 marks) 25%.

2. (8 marks) Push: limited jobs/services, environmental pressure; pull: employment, healthcare, education, amenities.

3. (8 marks) B is denser and has less green space; possible greater runoff/urban heat; do not infer causation from two data points alone.

4. (7 marks) Reduced infiltration increases surface runoff and shortens lag time.

5. (8 marks) Benefits: energy, water supply, flood management; costs: displacement, habitat loss, expense; weigh context.

6. (10 marks) Reward supported trade-offs, sustainability, cost and stakeholder awareness.

What to observe

Look for subject knowledge, accuracy, use of appropriate terminology, clarity of reasoning, interpretation of command words, and ability to justify or evaluate when asked.

Suggested diagnostic approach

Record which questions were attempted independently, which required prompts, and whether difficulties arose from concepts, literacy, calculations or time management. Plan follow-up teaching around recurring misconceptions.

Curriculum note

This is a general Year 10 IGCSE-oriented diagnostic. It is not endorsed by Cambridge, Pearson Edexcel or the IB. Topic order and examination demands differ by board and school; adjust to the student's actual specification.

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