

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATION COUNCIL OF TANZANIA
DIPLOMA IN SECONDARY EDUCATION EXAMINATION**

713

**GEOGRAPHY
(SUPPLEMENTARY)**

Time: 3 Hours.

ANSWER

Year: 2014

Instructions

1. This paper consists of sections A, B and C.
2. Answer **all** questions from Section A and **two (2)** questions from each of section B and C.
3. Section A carries **40** marks, Section B and C carry 30 marks each.
4. Cellular phones are **not** allowed inside the examination room.
5. Write your **Examination Number** on every page of your answer booklet



SECTION A (40 Marks)

Answer all questions in this section.

1. **Identify four landscape zones in the eastern highlands and note one farming activity typical in each.**

Rift valley floor: Flat and fertile soils make it ideal for irrigated crops such as rice and vegetables.

Highland plateaus: Moderate slopes allow cultivation of maize, wheat, and tea plantations.

Mountain slopes: Steeper areas support terrace farming of coffee and horticultural crops to prevent soil erosion.

Escarpments and cliffs: Limited farming occurs in pockets where soil accumulates, often for small-scale grazing or fruit trees.

2. **Mention four economic or cultural incentives that encourage larger household sizes.**

Labor contribution: More children help with farm work, herding, and domestic chores.

Social prestige: In some communities, having many children enhances a family's status and influence.

Security for old age: Parents expect children to provide care and support in later years.

Religious or cultural beliefs: Certain beliefs encourage high fertility and discourage contraception.

3. **State four supply- or service-related factors that can increase newborn mortality.**

Limited access to skilled birth attendants: Untrained deliveries increase complications and deaths.

Poor vaccination coverage: Infants remain susceptible to preventable diseases such as measles.

Insufficient emergency care: Delays in treating birth complications can be fatal.

Inadequate sanitation: Contaminated water and poor hygiene lead to infections in newborns.

4. **Define the use of an electronic distance meter in fieldwork.**

An electronic distance meter (EDM) measures distances precisely using electromagnetic waves, improving speed and accuracy over traditional chain-and-compass surveys.

5. **List four industries that benefit from ice-carved valleys in Europe and give one short reason for each.**

Tourism: Scenic landscapes attract visitors for skiing and hiking.

Hydropower: Valleys guide rivers, enabling dam construction and energy generation.

Agriculture: Fertile soils from glacial deposits support crop cultivation.

Mining: Glacial activity exposes mineral deposits such as sand, gravel, and ores.

6. **Give two benefits and two drawbacks of visitor growth near game reserves.**

Benefits: Tourism generates revenue for communities and improves local infrastructure like roads and lodges.

Drawbacks: Wildlife disturbance and habitat destruction can occur, and local cultures may be disrupted by tourist behavior.

7. (a) **What is ecosystem contamination?**

Ecosystem contamination occurs when pollutants enter the environment, harming plants, animals, and humans.

(b) **Give two examples by medium.**

Water contamination: Pollutants entering rivers and lakes.

Air contamination: Smoke, dust, and chemical fumes in the atmosphere.

8. (a) **Define pollutant in one line.**

A pollutant is any substance introduced into the environment that causes harm to living organisms or ecosystems.

(b) Give two sources of coastal contamination.

Industrial discharge: Factories release untreated waste into rivers reaching the sea.

Marine litter: Plastics and debris from ships and coastal towns accumulate on beaches and in water.

9. State four site requirements for a successful run-of-river energy project.

Reliable river flow: Ensures consistent electricity generation.

Sufficient gradient: Provides energy potential for turbines.

Stable geology: Supports construction of infrastructure like intake channels and turbines.

Accessibility: Roads are needed for maintenance and transmission line installation.

10. Give four short points on how geographical knowledge helps local planners.

Land-use decisions: Understanding topography guides zoning and settlement planning.

Disaster preparedness: Knowledge of flood-prone zones helps reduce risk.

Resource management: Identifies locations for irrigation, forests, and minerals.

Transport planning: Helps design efficient road and rail networks across varied terrain.

SECTION B (40 Marks)

Answer two (2) questions from this section.

11. Discuss four transferable skills learners develop from map work and field observation.

Spatial analysis: Students interpret patterns on maps to make decisions about land and resources.

Problem-solving: Fieldwork challenges develop analytical thinking and practical solutions.

Communication: Presenting field observations improves reporting and explanation skills.

Collaboration: Working in groups during field activities teaches teamwork and coordination.

12. (a) Define resource aids for lessons.

Resource aids are materials or tools, such as maps, charts, globes, and models, that assist teachers in conveying geographical concepts effectively.

(b) Evaluate two strengths and one weakness of using field sketches with students.

Strengths:

Encourage active observation and understanding of spatial relationships.

Foster creativity and reinforce memory through drawing.

Weakness:

Sketches can be inaccurate if students lack proper training or guidance.

13. Compare and critique three common methods of capturing spatial data in student projects.

GPS devices: Highly accurate and fast for collecting coordinates, but expensive and requires technical skill.

Sketch maps: Flexible and quick, but often less precise and subjective.

Photographs: Capture features clearly for later reference, but require interpretation and may not include scale.

14. Explain how a clear syllabus supports consistent teaching and fair testing.

Sequencing topics: Ensures teachers cover all required areas in logical order.

Assessment alignment: Helps match exercises and exams to learning objectives.

Time allocation: Guides how much time to spend per topic to cover the syllabus completely.

Resource planning: Identifies maps, charts, and field aids needed for each lesson.

SECTION C (20 Marks)

Answer two (2) questions from this section.

15. (a) What belongs in a lesson template?

Objectives, learning activities, teaching aids, assessment methods, and time allocation are core components.

(b) Draft a 45-minute lesson for beginners on "Rotation of the planet", including assessment question(s).

Objectives: Understand Earth's rotation and its effects on day and night.

Activities: Demonstrate rotation using a globe and flashlight; students predict day and night in different regions.

Assessment: Ask students to describe why the Sun appears to rise in the east and set in the west.

16. Give four classroom activities that build students' skills in taking measurements outdoors.

Using measuring tapes: Students measure distances between points along a transect.

Clinometer use: Learners determine slope angles of hills or valleys.

Pacing: Count steps to estimate distances when tools are unavailable.

Field sketches: Draw observed features with annotations to record measurements visually.

17. Create a short Think-Pair-Share lesson for teaching scale conversion, include expected student outputs.

Think (5 min): Students calculate real-world distances from a given map scale.

Pair (10 min): Compare calculations and discuss errors.

Share (10 min): Present findings to the class; teacher clarifies misconceptions.

Expected output: Correct conversion of map distances into real-world distances with clear explanation.

18. Describe four classroom checks a teacher can use to measure student progress in geography.

Oral questioning: Ask targeted questions to gauge understanding.

Short quizzes: Test knowledge of map reading or physical features.

Practical tasks: Observe students performing field measurements or plotting data.

Peer assessment: Students review each other's sketches or calculations to reinforce learning and identify errors.