

INTERSECONDARY SCHOOLS EXAMINATION SERIES ISESE



FORM TWO OPENING TEST JULY GEOGRAPHY

013

TIME 2:30 HRS

Year 2026

INSTRUCTIONS

1. This paper consists of sections A, B and C with the total of **ten (10)** questions
2. Answer **ALL** questions
3. Section A and C carry **fifteen (15)** marks each and section B carries **seventy (70)** marks
4. All writing must be in **blue** or **black** ink
5. **All** writing must be written in the space provided
6. Cellular phones, calculators and any unauthorized materials are **not** allowed in assessment room
7. Write your **names** at the top of every page.

SECTION A (15 Marks)Answer **ALL** questions in this section

1. For each of the items (i)-(x) choose the correct answer from among the given alternative and write its letter beside the correct number:

i. Imagine a traveler is moving from Dar es Salaam (45°E) to a city located at 45°W. If the time in Dar es Salaam is 10:00 AM, what will be the recorded time in the destination city?

- A. 4:00 AM
- B. 4:00 PM
- C. 6:00 AM
- D. 2:00 AM

ii. A farmer in the Southern Highlands of Tanzania notices that the southern slopes of a mountain receive heavy rainfall and have thick vegetation, while the northern slopes are dry. Which type of rainfall is responsible for this variation?

- A. Cyclonic rainfall
- B. Convectional rainfall
- C. Orographic rainfall
- D. Frontal rainfall

iii. During a field trip, students observed a feature characterized by a steep vertical face of rock along the sea coast, formed by the continuous action of waves. This feature is most likely a:

- A. Beach
- B. Stack
- C. Cliff
- D. Spit

iv. If the scale of a map is 1:50,000, and the measured distance between a school and a dispensary on the map is 10 cm, what is the actual ground distance in kilometers?

- A. 0.5 km
- B. 5 km
- C. 50 km
- D. 500 km

v. Which of the following experimental setups would best demonstrate the process of chemical weathering in a humid tropical region?

- A. Heating a rock and then cooling it rapidly with water.
- B. Placing a rock in a container of water mixed with weak acid.
- C. Growing a plant in a crack within a rock.
- D. Freezing water inside the crevices of a rock sample.

vi. A survey team is using a method that involves measuring angles and distances to determine the position of points on the earth's surface using a chain and arrows. This type of survey is called:

- A. Levelling survey
- B. Chain survey
- C. Prismatic compass survey
- D. Plane table survey

vii. When the moon moves into the shadow of the earth, an astronomical event occurs where the earth is positioned between the sun and the moon. This event is known as:

- A. Solar Eclipse
- B. Equinox
- C. Lunar Eclipse
- D. Solstice

viii. In a certain region, the temperature at sea level (0 meters) is 30°C. Using the standard lapse rate, what would be the approximate temperature at the peak of a mountain that is 4,000 meters high?

- A. 4°C
- B. 26°C
- C. 14°C
- D. 54°C

ix. Which layer of the Earth's internal structure is predominantly composed of molten iron and nickel and is responsible for the Earth's magnetic field?

- A. The Crust
- B. The Mantle
- C. The Outer Core
- D. The Inner Core

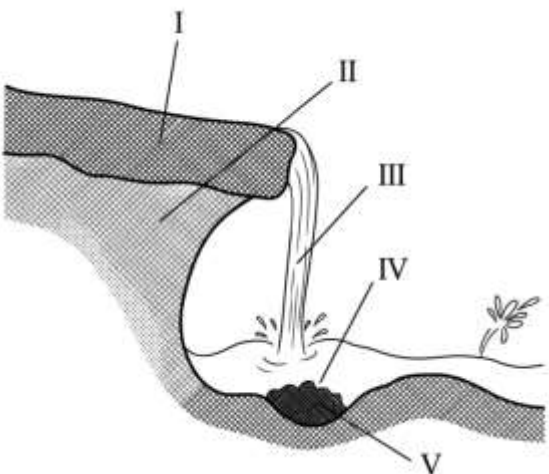
x. A local government officer is advising villagers on how to reduce soil erosion on a steep hillside. Which of the following methods would be the most effective competency-based solution for this specific terrain?

- A. Overgrazing
- B. Monoculture
- C. Terracing
- D. Shifting cultivation

ANSWER

i	ii	iii	iv	v	vi	vii	viii	ix	x

2. Match each item in **column A** against its corresponding item from **column B**

Column A	Column B
	A. Plunge pool B. River C. Hard rock D. Soft rock E. Waterfall F. Fallen rocks G. Rapids H. V-shaped valley

ANSWER

i	ii	iii	iv	v

SECTION B (70 Marks)

Answer **ALL** questions in this section

3. Carefully study the map of **Sikonge sheet 137/2** and then answer the questions above.

a. Describe the nature of relief in the mapped area

b. Find the highest point on the given map and give grid references and direction.

c. State the general direction of slope of the land in the mapped area

d. Calculate the total distance covered in kilometers if the car was travelling from Sikonge town grid reference 732787 to Lyombakuzoa church grid reference 755765 and turn back to Sikonge,

e. Calculate the gradient from grid reference 835846 to 782786.

4. (a) Distinguish between Continental landforms and Oceanic landforms, providing two example of each found within the African continent or its surrounding waters.

Continental landforms	Oceanic landforms
i.	
ii.	

(b) The Great Rift Valley is a significant relief feature in East Africa. Explain two distinct ways in which the formation of such tectonic features occurred on the earth's surface

i. _____

ii. _____

(c)(i) Differentiate between Plateau and a Plain.

Plateau	Plain

(ii) Provide two reasons why human settlements are more densely concentrated on plains than on high plateaus.

5. "Most astronomers believe that the universe began as a very small, hot, and dense point which later underwent a massive expansion."

(a) Identify the theory described in the statement above.

(b) Briefly explain the concept of Big Bang Theory

(c) Briefly explain the critique of the theory

i.

ii.

iii.

6. Carefully study the photograph below and then answer the following questions



(a) Divide the photograph into three main parts (foreground, middle ground, and background) and state what is dominant in each part.

i. _____

ii. _____

iii. _____

(b) Based on your geographical knowledge, determine the specific environmental problem depicted in this photograph.

(i) Identify the problem.

(ii) Provide two pieces of evidence directly from the photograph to support your answer.

(c) If your geography class were to visit this location for fieldwork:

What are two potential risks or dangers you and your classmates might face at this site, and how would you mitigate them?

Dangers

- (i) _____
(ii) _____

Mitigation

- (i) _____
(ii) _____

7. Imagine you are a young geologist visiting a mountainous region in Tanzania. During your expedition, you encounter three different types of rocks.

- **Rock A** was formed from the cooling and solidification of molten material from deep within the earth.
- **Rock B** shows distinct layers and contains small fragments of shells and older rock particles.
- **Rock C** appears very hard and has a shiny, foliated texture, looking quite different from the original limestone found nearby.

a) Identify the three rock types (A, B, and C) mentioned in the scenario.

b) Account for the presence of shells and fragments found in Rock B.

c) Explain the process that transformed the nearby limestone into Rock C.

d) How do these rocks contribute to the economy of Tanzania? Give three points.

- i. _____
ii. _____
iii. _____

8. Imagine you are a meteorologist invited to a community meeting in a village located at the foot of a high mountain. The villagers are confused as to why the peak of the mountain is covered in ice, while the base where they live is very hot. Furthermore, they are concerned about reports of "holes" in the atmosphere that might affect their health.

a) Explain the temperature transformation that occurs as one moves from the village (base) to the mountain peak. Use the concept of the Lapse Rate to justify your answer.

b) Identify the specific layer of the atmosphere where the mountain peak resides if it is within 10km of the Earth's surface, and describe two (2) characteristics of this layer that make life possible on Earth.

Layer _____

Characteristics

i. _____

ii. _____

c) The "holes" the villagers are worried about refer to the depletion of the Ozone Layer.

(i) In which atmospheric layer is the Ozone found?

(ii) Provide three (3) practical ways the local community can help prevent the destruction of this layer.

d) How would the composition of the atmosphere change if all green plants in the village were cut down? Relate your answer to the balance of gases.

9. A group of students from a coastal secondary school conducted a study visiting along the Indian Ocean coast. They observed different types of coral reefs, rich marine life and human activities such as fishing and tourism taking place near the reefs. As a form three geography student:

(a) Define the term coral reefs

(b) Identify and describe the main types of coral reefs found in coastal areas.

i. _____

ii. _____

iii. _____

(c) Identify four (4) conditions necessary for the formation and growth of coral reefs.

i. _____

ii. _____

iii. _____

iv. _____

(d) Propose three (3) measures that can be taken to conserve and protect coral reefs

- i. _____
- ii. _____
- iii. _____

SECTION C (15 Marks)

Answer questions number **ten (10)** from this section

9. During a geography field study in a desert environment, students observed several unique landforms. The guide explained that these features were formed due to the erosive action of wind over a long period. As a knowledgeable student discuss six (6) main features of wind erosion found in desert area

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**INTERSECONDARY SCHOOLS EXAMINATION SERIES
ISESE TIME TABLE
FORM TWO PRE NECTA SERIES 01
13th July – 18th July 2026**

DATE	SUBJECT(S)
13 th July	HISTORY + B.STUDIES
14 th July	BIOLOGY + ENGLISH
15 th July	CHEMISTRY + HTM
16 th July	PHYSICS + KISWAHILI
17 th July	MATHEMATICS + GEOGRAPHY
18 th July	COMPUTER SCIENCE

GHARAMA

*** SOMO MOJA KWA KIDATO KIMOJA = **20,000/=** KWA MUHULA MZIMA

*** FULL SET KWA KIDATO KIMOJA (KWA MASOMO 11 TU) = **150,000/=** KWA MUHULA MZIMA

ZINGATIA :-

*** GHARAMA ZA MITIHANI HUPANDA KADRI PRE-NECTA SERIES ZITAKAVYOKUWA ZINAENDELEA KUFANYIKA HIVYO LIPIA MAPEMA ILI KUEPUKA USUMBUFU

*** PRE-NECTA SERIES ZITAKUWA ZAIDI YA 10

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