

GEOGRAPHY AND ENVIRONMENT

Level: S3



MOCK FOR THE 2024/2025 NATIONAL EXAMINATIONS

QUESTION PAPER

**COMBINATIONS/
OPTION/TRADE:**

.....

CANDIDATE NAMES:

INDEX NUMBER:

DURATION: 3 HOURS

INSTRUCTIONS TO CANDIDATES:

1. **Read and understand** all instructions before answering.
2. For multiple-choice questions, **choose only one correct answer** and clearly **circle the letter or number**.
3. **Erasing or altering** answers is strictly prohibited and will lead to **zero mark** for the affected question.
4. All answers for **open-Ended questions** must be written in the spaces provided herein.
5. Use **only blue or black ink pens** (no pencils or colored pens)

May 2025

PART I: PHYSICAL GEOGRAPHY

ANSWER ALL QUESTIONS. (50 MARKS)

- 1) Choose and circle the correct answer.
- i) Which of the following is NOT an effect of the Earth's rotation? **(2 marks)**
 - A) Day and night
 - B) Seasons
 - C) Time difference
 - D) Deflection of winds and ocean currents
 - ii) Which of the following are discontinuities in the Earth's internal structure? **(2 marks)**
 - A) Gutenberg and Mohorovičić
 - B) Mantle and core
 - C) Inner core and outer core
 - D) Crust and lithosphere
 - iii) Match the following types of mountains with their formation process: **(3 marks)**

Mountain types	Formation processes
1. Fold Mountains	i. Caused by magma erupting from the Earth's surface
2. Block Mountains	ii. Formed through the folding of rock layers
3. Volcanic Mountains	iii. Created by faulting due to tension in the Earth's crust

- 2) Choose and circle the correct answer.
- i) Which is a characteristic of igneous rocks? **(2 marks)**
 - A) Formed in layers
 - B) Contains fossils
 - C) Formed from cooling of molten magma
 - D) Soft and porous
 - ii) How are sedimentary rocks formed? **(2 marks)**
 - A) From cooled magma
 - B) By metamorphosis
 - C) From deposition and compaction of sediments
 - D) From crystallization
- 3) Choose and circle the correct answer.
- i) What is weather forecasting? **(2 marks)**
 - A) Study of the climate over a long period
 - B) Prediction of future atmospheric conditions
 - C) Study of seasons
 - D) Analysis of ocean currents

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- ii) Which of the following is NOT an element of weather? **(2 marks)**
- A) Humidity
 - B) Pressure
 - C) Wind
 - D) Soil fertility

- 4) Match the lake in column A with its primary mode of formation in column B: **(5 marks)**

A) Lakes	B) Mode of formation
1. Lake Tanganyika	a. Human activity
2. Lake Bosumtwi	b. Volcanic activity
3. Lake Burera	c. Tectonic faulting
4. Lake Victoria	d. Meteorite impact
5. Lake Kariba	e. Crustal warping

- 5) Choose and circle the correct answer.
- i) What causes soil erosion during heavy rainfall? **(2 marks)**
- A) Lack of oxygen
 - B) Water droplets break soil particles
 - C) Freezing and thawing
 - D) Overgrazing
- ii) How do steep slopes contribute to soil erosion? **(2 marks)**
- A) By reducing run-off
 - B) By increasing wind erosion
 - C) By speeding up water flow
 - D) By preventing evaporation
- iii) How does wind cause soil erosion? **(2 marks)**
- A) By compacting the soil
 - B) By blowing away loose particles
 - C) By increasing rainfall
 - D) By changing soil color
- 6) Choose and circle the correct answer.
- i) What is a characteristic of Birunga forests? **(2 marks)**
- A) Grows in semi-arid areas
 - B) Dominated by acacia trees
 - C) Dense and evergreen
 - D) Found near lakes
- ii) Which of these is a characteristic of mangrove vegetation? **(2 marks)**
- A) Found in deserts
 - B) Have deep tap roots
 - C) Grows in saline water
 - D) Found in mountainous areas

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- 7) Choose and circle the correct answer. **(2 marks)**
- i) What is a Stevenson screen? **(2 marks)**
- A) A rock layer
 B) A weather instrument shelter
 C) A cloud type
 D) A wind measurement device
- ii) Which is NOT a quality of a Stevenson screen? **(2 marks)**
- A) Painted black
 B) Well ventilated
 C) Raised from the ground
 D) Slatted sides
- iii) Which is a characteristic of equatorial climate? **(2 marks)**
- A) Low rainfall
 B) Hot and wet throughout the year
 C) Snowfall common
 D) Large temperature variations

- 8) Match the climate type in the column A with its primary location in Africa in the column B: **(4 marks)**

Types of climates	Locations
1. Equatorial Climate	a. Sahara, Namib, Kalahari
2. Mountain Climate	b. Congo Basin, Guinea Coast
3. Tropical Desert Climate	c. Cape Town
4. Warm Temperate Western Margin	d. East African Highlands

- 9) Choose and circle the correct answer. **(2 marks)**
- i) What is a negative impact of pollution? **(2 marks)**
- A) Increased crop yield
 B) Improved air quality
 C) Respiratory problems
 D) Economic growth
- ii) Which of the following is an environmental conservation measure? **(2 marks)**
- A) Afforestation
 B) Bush burning
 C) Deforestation
 D) Mining
- iii) Which is an effective measure against desertification? **(2 marks)**
- A) Overgrazing
 B) Deforestation
 C) Controlled grazing

- D) Urbanization
- 10) Choose and circle the correct answer.
- i) What is meant by lava damming? **(2 marks)**
- A) Blocking of rivers by lava flows
 - B) Creation of artificial lakes
 - C) Melting of glaciers
 - D) Earthquake faulting
- ii) Which of the following are lava dammed lakes in Rwanda? **(2 marks)**
- A) Kivu and Victoria
 - B) Burera and Ruhondo
 - C) Tanganyika and Albert
 - D) Kyoga and Edward

PART II: HUMAN AND ECONOMIC GEOGRAPHY

ANSWER ALL QUESTIONS. (50 MARKS)

- 11) Choose and circle the correct answer.
- i) Which of the following is a major factor that influences population distribution in Rwanda? **(2 marks)**
- A) High literacy rate
 - B) Harsh climate
 - C) Fertile volcanic soils
 - D) Internet availability
- ii) Which of the following is a push factor for migration? **(2 marks)**
- A) Good healthcare
 - B) Unemployment
 - C) Tourism
 - D) Stable governance
- iii) Which of the following is a push factor for migration? **(2 marks)**
- A) Good schools
 - B) War
 - C) Job availability
 - D) Safe environment
- 12) Choose and circle the correct answer.
- i) Which of the following is NOT a type of rural settlement? **(2 marks)**
- A) Linear
 - B) Dispersed
 - C) Nucleated
 - D) Concentric
- ii) How can slum development in urban centres be discouraged? **(2 marks)**
- A) Reducing taxes
 - B) Building more roads
 - C) Providing affordable housing
 - D) Encouraging rural-urban migration

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- 13) Choose and circle the correct answer.
- i) What is one problem faced by ranching in Africa? **(2 marks)**
A) High wages
B) Overgrazing
C) Excess water
D) Low meat prices
- ii) What best defines plantation farming? **(2 marks)**
A) Growing crops for local use
B) Cultivating many crops in a small area
C) Raising animals in a plantation
D) Growing one major crop on a large scale for export
- iii) One major characteristic of plantation agriculture in Brazil is: **(2 marks)**
A) Small family farms
B) Minimal labor use
C) Export-oriented production
D) Low technology use
- iv) Why is plantation agriculture highly productive? **(2 marks)**
A) It uses manual tools only
B) It relies on shifting cultivation
C) It uses modern techniques and large capital
D) It avoids export markets
- 14) Choose and circle the correct answer.
- How does open-cast mining differ from shaft mining? **(2 marks)**
A) Shaft mining is used on the surface
B) Open-cast mining is underground
C) Shaft mining involves deep vertical tunnels
D) Open-cast mining uses elevators
- 15) Choose and circle the correct answer.
- i) Which of the following limits power production in Africa? **(2 marks)**
A) Constant rainfall
B) Technological advancement
C) Abundant coal reserves
D) Lack of skilled labor
- 16) Answer by true or false. **(5 marks)**
a) Population growth is influenced only by birth rates. _____
b) Population density refers to the number of people per unit area of land. _____
c) A population pyramid with a wide base and narrow top indicates a high proportion of young people and high birth rates. _____
d) A "push factor" is a reason that encourages people to leave their home country. _____

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- e) Political instability in a country is typically considered a pull factor for migration. _____
- 17) Choose and circle the correct answer.
- i) What is the difference between land rehabilitation and land reclamation? **(2 marks)**
- A) Rehabilitation creates new land from oceans
 B) Reclamation restores damaged land
 C) Rehabilitation restores land to productivity
 D) Reclamation improves existing buildings
- ii) Why is land reclamation important? **(2 marks)**
- A) It reduces pollution
 B) It creates new usable land
 C) It discourages agriculture
 D) It increases rainfall
- 18) Use the provided words to fill-in- the blank spaces within the following sentences: **(decline; expand; sustainability; energy; protecting) (5marks)**
- a) Imposing heavy import duties is a measure aimed at _____ local industries.
- b) Investing in renewable energy sources like solar power can help address the problem of insufficient _____.
- c) Joining regional economic blocs like the EAC helps Rwanda _____ its market.
- d) Balancing industrial development with environmental protection is crucial to ensure _____.
- e) One trade-off of industrial development is the potential _____ of other sectors like agriculture.
- 19) Choose and circle the correct answer.
- i) One problem associated with industrialization in Germany is: **(2 marks)**
- A) Lack of skilled labor
 B) High unemployment
 C) Environmental pollution
 D) Political instability
- ii) What factor favored the Ruhr industrial development? **(2 marks)**
- A) Lack of coal
 B) Proximity to ports
 C) Inaccessible transport routes
 D) Poor labor supply
- 20) Analyze the strategic policies taken by China for population control. **(10 marks)**

Space reserved for answers of question 20

**National Examination Paper:
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Level: S3



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MARKING GUIDE

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May 2025

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1. ii

2. iii

3. i

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5. Lake Kariba	e. Crustal warping

Lakes and their mode of formation are matched as follow:

- 1. c
- 2. d
- 3. b
- 4. e
- 5. a

5) Choose and circle the correct answer. (2 marks)

- i) What causes soil erosion during heavy rainfall?
- A) Lack of oxygen
 - B) Water droplets break soil particles**
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ii) How do steep slopes contribute to soil erosion? (2 marks)

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1=B 2=D 3=A 4=C

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- C) Abundant coal reserves
 D) **Lack of skilled labor**
- 16) Answer by true or false. **(5 marks)**
- a) **True or False:** Population growth is influenced only by birth rates. **False** (Population growth is also influenced by death rates, immigration, and emigration.)
- b) **True or False:** Population density refers to the number of people per unit area of land. **True**
- c) **True or False:** A population pyramid with a wide base and narrow top indicates a high proportion of young people and high birth rates. **True**
- d) **True or False:** A "push factor" is a reason that encourages people to leave their home country. **True**
- e) **True or False:** Political instability in a country is typically considered a pull factor for migration. **False** (Political instability is a push factor, as it drives people to leave their country.)
- 17) Choose and circle the correct answer.
- i) What is the difference between land rehabilitation and land reclamation? **(2 marks)**
- A) Rehabilitation creates new land from oceans
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 D) It increases rainfall
- 18) Use the provided words to fill-in- the blank spaces within the following sentences: **(decline; expand; sustainability; energy; protecting)** **(5marks)**
- a) Imposing heavy import duties is a measure aimed at **protecting** ____ local industries.
- b) Investing in renewable energy sources like solar power can help address the problem of insufficient **energy** ____.
- c) Joining regional economic blocs like the EAC helps Rwanda **expand** ____ its market.
- d) Balancing industrial development with environmental protection is crucial to ensure **sustainability** ____.
- e) One trade-off of industrial development is the potential **decline** ____ of other sectors like agriculture.
- 19) Choose and circle the correct answer.
- i) One problem associated with industrialization in Germany is: **(2 marks)**
- A) Lack of skilled labor
 B) High unemployment
 C) **Environmental pollution**
 D) Political instability

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ii) What factor favored the Ruhr industrial development? **(2 marks)**

- A) Lack of coal
- B) Proximity to ports**
- C) Inaccessible transport routes
- D) Poor labor supply

20) Analyse the strategy policies taken by China for population control.

(10 marks)

Introduction / 1 mark

The strategic policies taken by China for population control are:

- It came up with the “family-based old-age care system to supplement and support old people.
- The government also proposed to gradually increase the retirement age so as to limit financial expenditure on old people.
- The government has revised the policy to control birth rate. With “one-child policy” per couple, the birth rate has been reduced from 5.9 to 2.1. This is the rate needed to maintain a stable population. Nowadays two children per couple are allowed.
- A new urbanisation policy where small and medium sized cities have been created in rural areas: This has reduced congestion in cities and discouraged rural-urban migration.
- Education regarding family planning and the various methods of contraception has been emphasised.
- The government provides free sterilisation to parents who feel their families are already too large.
- There are financial incentives to people who volunteer to be sterilised. This has increased the number of people being sterilised.
China has legalised abortion to reduce the number of children who would have been born out of wedlock.

Any 8 points×1= 8 marks

Conclusion / 1 mark

END

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