Geography **Higher level** Paper 1

9 May 2025

Zone A afternoon Zone B afternoon Zone C afternoon

2 hours 15 minutes

Instructions to candidates

- Do not open this examination paper until instructed to do so. ۰
- Answer the questions in three options. ٠
- The accompanying geography resource booklet is required for this examination paper. ۰
- The maximum mark for this examination paper is [60 marks]. ۰



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Option Option A — Freshwater Option B — Oceans and coastal margins Option C — Extreme environments Option D — Geophysical hazards Option E — Leisure, tourism and sport Option F — Food and health Option G — Urban environments

	Questions
	1 – 2
	3 – 4
	5 – 6
	7 – 8
	9 – 10
	11 – 12
	13 – 14
-	

Diploma Programme Programme du diplôme



Answer the questions in three options.

When relevant, answers should refer to case studies or examples, and where appropriate include well-drawn maps or diagrams.

Option A — Freshwater

Answer the following question.

 The graph shows the projected change in v between 1990 and 2025.



The graph shows the projected change in water availability in selected African countries









- (a) (i) State which country's water avail 1990 and 2025.
 - (ii) Identify which country's water av 1500 m³/person/year between 19
- (b) Outline one possible physical cause
- (c) Explain two reasons for the growing h
- (Option A continues on the following page)

less than 1000 m ³ /person/year	
Water stress 1000 to 1700 m ³ /person/year	
Water vulnerability 1700 to 2500 m ³ /person/year	
lability has decreased the most between	[1]
ailability decreased by approximately and 2025.	[1]
for water scarcity in regions such as these.	[2]
uman pressure on lakes.	[3 + 3]



Either

2. (a) meanders and floodplains.

Or

2. (b) water supplies.

End of Option A



Examine the role of the processes of river erosion and deposition in the formation of [10]

Examine the role of local communities in managing access to clean and sustainable

[10]



Option B — Oceans and coastal margins

Answer the following question.

- Refer to the graph on page 2 of the accompanying resource booklet. 3. The graph shows the percentage of coral reefs destroyed since 2000.
 - Identify the area with the greates (a) (i)
 - Estimate the percentage of cora (ii) Atlantic Ocean.
 - Outline one human activity responsibl (b)
 - Explain one climatic impact of (C) (i)
 - Explain one economic impact of (ii)

Answer either part (a) or part (b).

Either

(a) 4.

st percentage of destroyed coral reefs.	[1]	
al reefs destroyed in the Caribbean and		⊕,
le for the decline in coral reefs.	[2]	
a La Niña event.	[3]	
of a La Niña event.	[3]	

Evaluate the effectiveness of strategies to manage oil and plastic waste pollution in



- Outline one human activity responsible (b)
- Explain one climatic impact of a (c) (i)
 - Explain one economic impact or (ii)

Either

(a) 4. the oceans.

Or

(b) 4. at coastlines may be difficult to resolve.

End of Option B

e for the decline in coral reefs.	[2]
a La Niña event.	[3
f a La Niña event.	[3]

Evaluate the effectiveness of strategies to manage oil and plastic waste pollution in

Examine why conflicts between commercial development and conservation measures







⊕.





Option B — Oceans and coastal margins

3. The graph shows the percentage of coral reefs destroyed since 2000.



Option C — Extreme environments

Answer the following question.

Refer to the map on page 3 of the accompanying resource booklet. 5.

- Identify the main land use in the (a) (i)
 - State the direction from the com (ii) garden in Koyli Alpha.
- Outline one way in which water might (b)
- Explain how increasing tourism in hot, (c)
 - one positive economic impact; (1)
 - one negative environmental impact. (ii)



The map shows the land use of plots in a few villages in a hot, arid area in Northern Senegal.

village of Widou Thiengoly.	[1
munal garden in Tessekere to the communal	[1
be obtained from the water points.	[2
, arid environments may lead to:	
	[3



[3]

- L-1
- Explain how increasing tourism in hot, arid environments may lead to: (c)
 - one positive economic impact; (i)
 - one negative environmental impact. (ii)

Either

6. (a) landscape features.

Or

6. (b) development in one or more extreme environments.

End of Option C

[3]

Examine the role of freeze-thaw and solifluction in the formation of periglacial

[10]

Examine the opportunities and challenges of using new technologies for sustainable



[3]

[10]

Option C — Extreme environments

5.



The map shows the land use of plots in a few villages in a hot, arid area in Northern Senegal.



Option D — Geophysical hazards

Answer the following question.

- Refer to the diagram on page 5 of the accompanying resource booklet.
 The diagram shows the effects on a settlement of liquefaction caused by an earthquake.
 - (a) (i) Identify one effect of liquefaction
 - (ii) Identify one effect of liquefaction
 - (b) Outline one adaptation strategy that of
 - (c) Explain how the hazard risk from volca
 - (i) one demographic characteristi
 - (ii) one economic characteristic of the population.

Answer either part (a) or part (b).

Either

 Examine the relationship between pla distribution of earthquakes.

n on this settlement.	[1]
n on the physical geography of the area.	[1]
could be used where liquefaction occurs.	[2]
anic eruptions might be affected by:	
ic of the population;	[3]
f the population.	[3]



- one demographic characteristi (i)
- one economic characteristic of (ii)

Either

8. (a) distribution of earthquakes.

Or

8. (b) vulnerability to earthquake hazards.

End of Option D

ic of the population;	[3]
f the population.	[3]

Examine the relationship between plate margin movements and the characteristics and [10]

Evaluate the effectiveness of pre-event management strategies in reducing human [10]



Option D — Geophysical hazards

7.

STABLE SOIL

Before earthquake



The diagram shows the effects on a settlement of liquefaction caused by an earthquake.

LIQUEFIED SOIL

During and after the earthquake



Sand below the



Option E — Leisure, tourism and sport

Answer the following question.

Refer to the map on page 6 of the accompanying resource booklet. 9.

The map shows part of the Sagarmatha National Park in Nepal. The scale is 1:50 000 and the contour interval is 40 metres.

- State the latitude of the hotel at (a) (i)
 - State the altitude gain, in metres (ii) (point A) to the spot height near
- Outline one possible human problem (b)
- Explain one political reason for (C) (i)
 - Explain one cultural reason for the growing importance of the Paralympic Games. (ii)

Answer either part (a) or part (b).

Either

10. (a) tourism strategy.



Phunki Tenga (point A).	[1]
s, walking from the spot height near Phunki Tenga Pangboche (point B).	[1]
caused by the large number of hotels in this area.	[2]
r the growing importance of the Paralympic Games.	[3]
the growing importance of the Paralympic Games.	[3]

Examine the role of movie location and/or heritage tourism as part of a niche national



- Outline one possible human problem caused by the large number of hotels in this area. [2] (b) Explain one political reason for the growing importance of the Paralympic Games. [3] (c) (i)
- - Explain one cultural reason for the growing importance of the Paralympic Games. [3] (ii)

Either

Examine the role of movie location and/or heritage tourism as part of a niche national 10. (a) [10] tourism strategy.

Or

Examine the relative importance of human and physical factors in the growth of 10. (b) tourism hotspots. [10]

End of Option E



Option E — Leisure, tourism and sport

The map shows part of the Sagarmatha National Park in Nepal. The scale is 1:50 000 and 9. the contour interval is 40 metres.









	Cultivation, Forest
tr	Visitor centre
51	Checkpoint
	Post office
Œ	Health post
+	Airport
	Hotel
	Campsite
± & 1	Temple, Monastery, Cho

-	-	£.			
\cap	r	T)	\sim		n
S	٤.	w	-	1	1.





Scale 1:50 000



Option F — Food and health

Answer the following question.

 The Venn diagram shows how different type indoor and vertical categories.



The Venn diagram shows how different types of food production can be classified into urban,







- (a) (i)
 - [1] [1] Identify the categories in which rooftop greenhouses are found. (ii) Outline one disadvantage of vertical farming for farmers. [2] Explain how one physical factor can lead to a change in food production [3] over time. Explain how one human factor can lead to a change in food consumption (ii)
- (b) (C) (1)
- [3] over time.

(Option F continues on the following page)



(Option F continued)

Answer either part (a) or part (b).

Either

12. (a) Examine the relative importance of diffusion of one or more vector-borne

Or

12. (b) Evaluate possible solutions to the pro

End of Option F



fferent geographic factors contributing to the	
e diseases.	[10]

blem of food ins	security.	[10]



Option G — **Urban environments**

Answer the following question.

13. within a 15-minute travel time (walking or cycling) from home.

Percentage of people and travel time taken to arrive at essential destinations



(a) Estimate the percentage of citizens who are more than 15 minutes travel from (1) their essential destinations.

The diagram shows the idea of the 15-minute city, in which most essential destinations are

Typical travel time to each essential destination



Percentage of people and travel time taken to arrive at essential destinations



- their essential destinations.
 - (ii) essential destination.
- (b)

Typical travel time to each essential destination

State the average travel time, in minutes, to reach the six types of

Outline one way in which becoming a 15-minute city could help reduce a city's

[1]







- (a) (i) Estimate the percentage of citize their essential destinations.
 - (ii) State the average travel time, in essential destination.
- (b) Outline one way in which becoming a ecological footprint.
- (c) Explain how the pattern of urban resid
 - (i) one physical factor;
 - (ii) one human factor.

(Option G continues on the following page)



Healthcare 8.5 minutes

Retail 6.5 minutes

ens who are more than 15 minutes travel from	[1
n minutes, to reach the six types of	[1
15-minute city could help reduce a city's	[2
dential areas can be affected by:	
	[3





(Option G continued)

Answer either part (a) or part (b).

Either

14. (a) one or more urban areas.

Or

Examine the role of economic and demographic processes contributing to 14. (b) inner-city gentrification.

End of Option G



Examine the strengths and weaknesses of strategies to reduce air pollution in

[10]

[10]

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