Script Marks Report

Component 7037/1 - GEOGRAPHY ADV PAPER 1

Series 6A23

Candidate Name CHRIST AMLAI

Candidate Number 3182 Centre Number 13277 Total Mark 65

Date Generated 01/07/2023 05:27:52

This candidate's script has been assessed using On-Screen Marking. The marks are therefore not shown on the script itself, but are summarised in the table below.

Item	Mark
1.1	3
1.2	3
1.3	4
1.4	6
2.1	4
2.2	3
2.3	4
2.4	14
3.1	Not Attempted
3.2	Not Attempted
3.3	Not Attempted
3.4	Not Attempted
4.1	Not Attempted
4.2	Not Attempted
4.3	Not Attempted
4.4	Not Attempted
5.1	Not Attempted
5.2	Not Attempted
5.3	Not Attempted
5.4	Not Attempted
5.5	Not Attempted
6.1	1
6.2	3
6.3	4
6.4	4
6.5	12
Total Mark	65

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Please write clearly in block capitals.

Centre number 1 3 2 7 7 Candidate number 3 1 8 2

Surname

Forename(s)

Candidate signature

I declare this is my ewn work.

A-level GEOGRAPHY

Paper 1 Physical Geography

Wednesday 17 May 2023 Morning Time allowed: 2 hours 30 minutes

Materials

For this paper you must have:

- · the colour insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

Instructions

- Use black ink or black ball-point pen.
- . Fill in the boxes at the top of this page.
- Answer all questions in Section A.
- Answer either Question 2 or Question 3 or Question 4 in Section B.
- Answer either Question 5 or Question 6 in Section C.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need additional extra space for your answer(s), use the lined pages at the end of this book.
 Write the question number against your answer(s).
- . Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 120.



7037/1

For Examiner's Use

Mark

Section

Α

B

C

TOTAL



Section A

Water and carbon cycles

Answer all questions in this section.

0 1 . 1	Outline the purpose of a flood hydrograph.
	The floor hydrograph visually depicts peak river
	discharge the highest discharge volume (me) Cubics mis
	discrete the highest discrete volume ()
	The Shape of the hydrograph can be
	flashy revocating rapid surther high and law dixherge
	levels or affernated revolveating a mon plateaux
	less extreme difference between high/low dixhorge.
	The axis can reveded precipitation in mm
	Extra space and also Months/weeks and days,
	such that it can be virually anderstood,
	which time period experienced greatest /least
	procipitation and their correlation with peak discharge.



Do not write outside the box

	Figure 1 is in the insert.
	Figure 1 shows information about freshwater abstraction in Finland in 2020.
0 1.2	Analyse the data shown in Figure 1. 41.27. 92.2 [6 marks]
	PLAN: Water returned to rivers = 541. +771. +15% = 96/1/100
	Water abstraction = 841. +16% = 100% /-46%-49.
	Goundanter stores of The 28 of 40 million / m3/yr
	gounderater stores of 70. 188. A griwthere
A03	comprised the least total water use of 40 million /m3/yr
	whereas fish farming had highest water use of 910 million m3/
	Water abstraction mainly involved surface water
A03	Water abstraction mainly involved surface water
	[847.] compared to groundoute 16%, the
100	ratio being 2114.
	Extra space
	Question 1 continues on the next page

Turn over ▶





Figure 2 is in the insert.

Figure 2 shows global proposed carbon sequestration rates compared to implemented carbon sequestration rates between 2000 and 2020.

0 1 . 3 Using Figure 2 and your own knowledge, assess the challenges associated with carbon sequestration.

[6 marks]



0 1 . 4 Evaluate the potential impact of changes in the carbon budget on a tropical rainforest that you have studied. [20 marks]

Turn over ▶







Do not write outside the box

Furthermore, the removal of trees drastically, alters
the micro-climate, of one canopy can evapo-transpire

ADD Gallon of water annually such that
a large scale removal, can reduce precipitation
in an area, so which it evapotranspiration
exceeds precipitation, droughts may accept and
the frequency of natural forest fires is likely
to increase. (SEE Answer booklet 1.4 p.g. 2)

36

End of Section A

Turn over for Section B

Turn over ▶







Section B

Answer one question in this section.

Answer either Question 2 or Question 3 or Question 4.

Question 2	Hot desert systems and landscapes
0 2 . 1	Outline weathering processes in hot deserts.
	[4 marks]
	Weathing & can involve freeze - than weathering,
	Water Seepinge into wak pores (cracks, involves
	a state change during 12 hours of the day as francisky
	in Subora con drop below O'C, at now water expuns
	by 43% when its state changes to ice, the
	regular the Ahmic expension and experiention
	enacesbuty by the high 2501 -40°C
	diarnal range, causes the breakdown of rock
	Extra space in situ. (SEE ANSWER 1966 3
	2.1)
	A•C

Question 2 continues on the next page

Turn over ▶





Figure 3 shows the changing size of the Sahara Desert between 1980 and 1990. A standard deviation calculation has been started.

Figure 3

Year	Area (millions of km²)	$x - \overline{x}$	$(x-\overline{x})^2$
1980	8.6	-0.609	0.371
1981	8.9	-0.309	0.095
1982	9.25	0.041	0.002
1983	9.4	0.191	0.036
1984	10.0	0-791	0.620
1985	9.25	0.041	0.002
1986	9.1	-0.109	0.012
1987	9.4	0.191	0.036
1988	8.9	-0.309	0.095
1989	9.2	-0.009	0.000
1990	9.3	0.091	0.008
	$\sum x = 101.3$		$\sum (x - \overline{x})^2 = 1.283$
	$\bar{x} = 9.209$		

Key

x = area of Sahara Desert

 \overline{x} = mean

 \sum = sum of

 σ = standard deviation

n = number in sample

Standard deviation formula

$$\sigma = \sqrt{\frac{\sum (x - \overline{x})^2}{n}}$$

Space for working
$$\sum [2-\bar{x}]^2 e^{-2\pi i t} = 0.657$$

 $1.283-0.626$
 $\sqrt{0.626}$
 $\sigma = 0.791 (3s.f)$



Do not write outside the box

0 2.2	Complete the table and standard deviation calculation in Figure 3 and evaluate the usefulness of the technique in analysing this data.
	48 +6 #,54 [6 marks]
	While the displaying of negative figures in 1980, 81,
	86,88,89, do imlieute a net size loss e-g
	1980 x-50 = - 0.6409, this figure may be hard to
	virualise; and tog the , years are assetul in the
	sense, that they display year-on-year area loss,
	as all increments are only by one year. this
	All Aluta Averahal ight Alors suggest
	this is not as a seful for styles
	The durage person.
	Extra space
	Extra space
	Question 2 continues on the next page

Turn over ▶



Figures 4a, 4b and 4c are in the insert, and show information about a town in Egypt (El-Sheikh El-Shazli) which is prone to desert flash flooding.

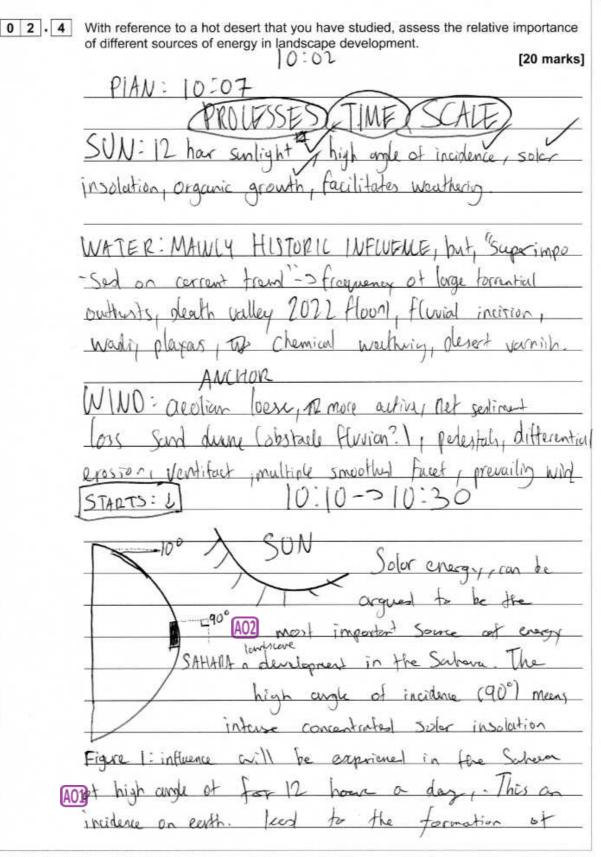
Figure 4a shows the location of El-Sheikh El-Shazli relative to a number of wadis in the area shown on a satellite image.

Figure 4b shows sketch maps of the town and area flooded before and after increased urbanisation.

Figure 4c is a photograph of the town looking towards the hills in Figure 4b.

Using Figures 4a, 4b, 4c and your own knowledge, assess the relative importance of physical and human factors contributing to the flash flooding events in this area. [6 marks]
Anthropogenic factors are a significant contributing factor to flush
A02 flooding events, Figure 4C to show an impermently surface
(road) - concrete /farmic", being impermeable infiltration is
ADDurable to take place, as surface stores fill ine "natural
degressions, sheet flooding and run-off is more likely.
However, physical factors such as the intensity and duration
of rainfull via precipitation must also be consideral,
Such that high precipitation, it exacerbated by
(AO2) arriecedent Complisions "Field moistury surplus / super-sochracks
Soils' , runoff is inevitable. Such that the rim
hunkfull capacity exceeds with high peak dirichage
(A02) ecuring new flown paths as shown in Figure 46.
Extra space Mureury, the concentration of orthochuning in figure the
where new floor paths are Substantials the inten of impermeable
Surface invary runoff as the floor path non
has confundi over 250m (used Scale given).





Turn over ▶



balled grounds. As evaporation exceeds precipitation
annually, capillary action causer Salts, from
previous precipitated water to rise, which lessen
a hardline duriciant, ofthe as the salts ause
A01 derest to expent and due to the lack
of months soil months defreit an
observable balled grand is crated, otherwise
Known as "deset reg/ of powement". This
influence, the landscape such that again
ADI Plants cannot esto survive in buker grown
in the hand dericrant. Magging, Heurry, it
considering time, the importance of son soler
energy privary the Solver Cardscope
to helf more on pla vegetation
is questionable. Poeriously, the
A01 Extra space Sahora had a green helt
around it , som approximately 15,000 years
A02) ago, which suggests historically water lab
more importance in forming lambrages as
despite the high cuple of incidence a thrivery
forest was established - Howard it must also
Toogs was execusive something must also
A02 be postic notal the presence of solar
A01 that the high drurnal range of 25-400
That the high diurnal range of 25-400
(SEE ALMER BOOKLET 2.4, pg. 4)



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	End of Question 2	

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Å

Coastal systems and landscapes Outline processes of mass movement at the coastline.	
	[4 marks]
<u>=) </u>	
Extra space	
Question 3 continues on the next page	

Turn over ▶



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Figure 5 shows the variation in tidal ranges at various locations across the British Isles. A standard deviation calculation has been started.

Figure 5

Location	Difference between high and low tide (m)	$x-\overline{x}$	$(x-\overline{x})^2$
Plymouth	4.7	-0.808	0.653
Southampton	4.0	-1.508	2.274
Dover	5.9	0.392	0.154
Aberdeen	3.7	-1.808	3.269
Liverpool	8.4		
Avonmouth	12.3	6.792	46.131
Belfast	3.1	-2.408	5.798
Derry / Londonderry	2.2	-3.308	10.943
St Helier	9.8	4.292	18.421
Swansea	8.4	2.892	8.364
Lowestoft	1.9	-3.608	13.018
Lerwick	1.7	-3.808	14.501
	$\sum x = 66.1$		$\sum (x - \overline{x})^2 = 131.890$
	$\bar{x} = 5.508$		-

Key

x = tidal range

 \bar{x} = mean

 \sum = sum of

 σ = standard deviation

n = number in sample

Standard deviation formula

$$\sigma = \sqrt{\frac{\sum (x - \overline{x})^2}{n}}$$

Space for working

 $\sigma =$



0 3 . 2	Complete the table and standard deviation calculation in Figure 5 and evaluate the usefulness of the technique in analysing this data.
	[6 marks]
	Extra space
	Question 3 continues on the next page

Turn over ▶





	Figures 6a, 6b and 6c are in the insert.
	Figure 6a shows a photograph of mangrove taken above and below the water line.
	Figure 6b shows the major benefits of mangrove for people.
	Figure 6c shows the proportion of protected and unprotected mangrove in the ten largest nations with mangrove forests.
0 3 . 3	Using Figures 6a, 6b, 6c and your own knowledge, assess the sustainability of mangrove forests in coastal management. [6 marks]
	*
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0 3.4	To what extent do natural processes account for the changes in a local scale coastal landscape that you have studied?
	[20 marks]

Turn over ▶

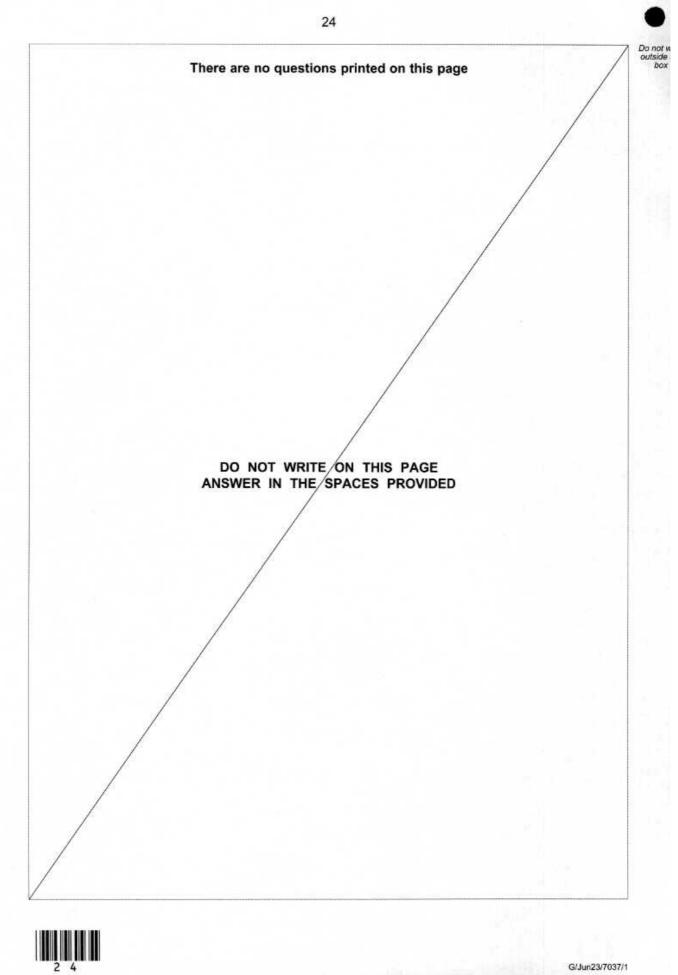


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Question 4	Glacial systems and landscapes Outline the processes by which ice moves within a glacier.	
		[4 marks]
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	Question 4 continues on the next page	

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Figure 7 shows the minimum extent of Arctic ice between 2002 and 2015. A standard deviation calculation has been started.

Figure 7

Year	Minimum extent (millions of km ²)	$x-\overline{x}$	$(x-\overline{x})^2$
2002	5.95	0.779	0.607
2003	6.13	0.959	0.920
2004	6.04	0.869	0.755
2005	5.56	0.389	0.151
2006	5.91	0.739	0.546
2007	4.29		
2008	4.72	-0.451	0.203
2009	5.38	0.209	0.044
2010	4.92	-0.251	0.063
2011	4.61	-0.561	0.315
2012	3.62	-1.551	2.406
2013	5.35	0.179	0.032
2014	5.28	0.109	0.012
2015	4.63	-0.541	0.293
	∑x = 72.39		$\sum (x - \overline{x})^2 = 7.123$
	$\bar{x} = 5.171$		

Key

x = minimum extent

 \bar{x} = mean

 \sum = sum of

 σ = standard deviation

n = number in sample

Standard deviation formula

$$\sigma = \sqrt{\frac{\sum (x - \overline{x})^2}{n}}$$

Space for working

 $\sigma =$



usefulness of the technique in analysing this data.	[6 mai
	
Extra space	
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Question 4 continues on the next page	

Turn over ▶



	Figures 8a and 8b are in the insert.
	Figure 8a shows trends in the onset of winter freeze-up in the Arctic Ocean and surrounding areas, 1979–2019.
	Figure 8b shows the change in the age of ice in the Arctic Ocean, 1985–2019.
0 4.3	Arctic sea ice.
	[6 marks]
	Extra space



Do not write outside the box

0 4 . 4	Analyse the relative importance of erosion and deposition in the development of fluvioglacial landscapes. [20 marks]
	
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Turn over ▶







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	End of Question 4	
	End of Section B	





Se		

Answer one question in this section.

	Answer either Question 5 or Question 6.
Question 5	Hazards
0 5 . 1	Outline the concept of mitigation in relation to the management of hazards. [4 marks
	Extra space
	0



	Figure 9 shows information about wildfires in Australia.
0 5.2	To what extent does Figure 9 show that wildfires are increasing in intensity and severity? [6 marks]
	Extra space
	Question 5 continues on the next page
	question o continues on the next page

Turn over ▶





	Figure 10 is in the insert.
	Figure 10 shows information about areas at risk following a seismic event based upon underlying geology in Waikato District and the surrounding area, New Zealand.
0 5.3	Using Figure 10 and your own knowledge, discuss likely approaches to seismic hazard management in this area.
	[9 marks]
	<u></u>
	Extra space



Turn over ▶





	Extra space
0 5.5	With reference to a hazardous location at a local scale, assess the importance of the physical processes and factors which have contributed to the scale and nature of the hazard. [20 marks]



Turn over ▶





Extra space		
9		
·		
	End of Question 5	



Question 6	Ecosystems under stress Outline the concept of net primary production.
0 0 . 1	[4 marks]
	Net primary production, go is an indicator for
	as the tropical rainforest have NPP et 360-1200
	ppp/m2 whereis desch usually han sport
	From 200- 400, which suggests a be walker presence of trees, species
	population.
	Extra space
	Question 6 continues on the next page

Turn over ▶





	Figure 11 is in the insert.
	Figure 11 shows data related to the number of endangered species across the Mediterranean Basin in 2017.
0 6.2	Analyse the data shown in Figure 11. [0:35]0:41
	The man for critically endement, endagent or
(A	03/ulnerally species is as follower, 110(c.e)
	157(e) and 165(v), which suggests or aways
	there are more endengered species. European countries
AO	The ranking of globally threebound species by Centry
	271 por 260, 241 my 224 ruhich suggests
	that in the Mexittenmen burn, European
1	Contries he has the highest threeling
	Speace cont Courties with accent to porte,
AO	3 who are not lawllicked is feel to have
	Extra space Bulgaria (21) and Italy 2 2241



	Figure 12 is in the insert.
	Figure 12 shows information about the Ainsdale Sand Dunes National Nature Reserve (NNR) in north-west England.
0 6 . 3	Using Figure 12 and your own knowledge, assess the challenges in managing this local scale ecosystem.
	The 'unspoilt' aspect of the NRR, may not be fossible
	to enforce if people of and dogs wanter off footputhor
A02	moreover the ruise from the military less than 35m
	away may distunt the migratory best breeding sesson of locall
(m)	arrivel e.g. birds In order to maintain the plagis climary
A01	Soggest, human interestion may be expect intensely squires,
- CV	i.e, detecting and extreminating alien species sull
(AC	as He "Juponese Knotures" and when "grey squirrel";
	as the relative homogenization at species may lead to
	mereyed compretion for resorces e.g. "Shelly found, work"
	There arresting factors which preserve the
	MRR, may he very difficult to maintain
	against the increased frequency of draught
	and large furrential pain experience by
	Englant. 2
	Extra space

Turn over ▶



0 6.	ecological change.
	[9 marks]
	For succession in a lithosphre to occr, physical
	factor such as sinlight ago, mater and wind are rebetively
	ADDIMPORTANT. As the formal hyphae in lichens him to rock
	an eptimum femperature (dependent on species 6-230)
	is coquired to for the brakdum of rock, as mosses steet
	A01) to grow plue to the first proto-soil of dead organic
	makerial from decomposing lichen, & water is required
	for more growth. Cordensation from morning dev is
	grenth, however, as the proto-soil incroser can
	4 the decomposed material now increases for
	wind-borne seeds to establish themselves and
A02	gran successfully frequent precipitation is required
	for auto-trophs to shotosynthesize. Moreover,
	wind in also crueial, of the relocity of the
	A02 greatly und must be high enough to
	402 framert seem was suspension but also
	low energh to deposit the seeds
	low enough to deposit the seeds



	Extra space on the Soil. Furthermore, due to the
	- Javenile Soil, which lacks Stordy roots
	to anchor if if wim , water velocity on
	precipitation is two eigh, the textice
	top soil may be every
	Forthemure, due to climate change the
	reliability and frequency of pains
	hater and wind a more
	prone to rayou rapid change -
0 6 . 5	How far do you agree that the development pressures facing savanna grassland are more extreme than those facing tropical rainforest? [20 marks]
	11:25 10:56-211:60
	Plan (TIME PROCESSEY SCALE)
	Serongetti: Landsupe development agriculture pastoralist
	-> wired fencin, forces witherbeast into other
	Margins, loss more dry dran cover, more forest
	fire, lions love some of front, forced to attack
	Cattle possoning, Marai, migratury breeding seesons,
	elephant agroot trees dynamite?
	TIF: pulmoil, monocuthre, Gatot Inianto, WWF.
	BUT 1017A RICA.

Turn over ▶



To a strong extent, lagree that development
passers imposed or TRE's are more
extreme then in the Swannon home Firstly,
development is an umbrelly form, which
an encompus economic development
and development of the Cambrage - In
2014 "Gafot Inianto" the heast minister
of Indonesian agriculture said their pulm-oil
was a gift from nature" and by expending
A01 the Indonesian economy through palmoil
to reputicate poverty. On a patienal.
ADD Scale, this saw 23% at all
TAF, deforestes, to grow a mono-culture
of pulm oil, the inheart nature of monocultures
mount that biodilecty in Indonesian Tetre
ADD pleaped by 32%, as the homogenization of a
Specier as well as anthropogenic introvention e.g.
chemicals to kill other plants' ment that sunlight
and make was being compeled for such that
only pulm-oil room could remain to these
newly deformed order - How This development
pressure, economically is seen through their
ADD government claim to crewbe 20,000
New jobs for pathe palm-oil
industry cas of 2022,

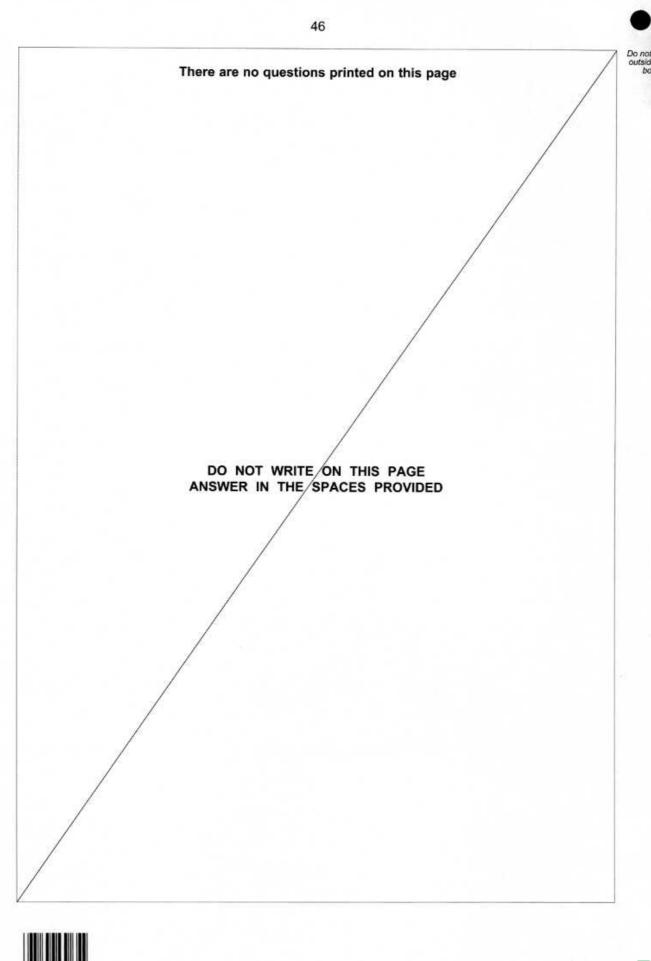


Extra space 13,000 new job, here heen crocked,
which suggests the impetus for the
despolation of Indonesia & Tept, will
Continue as the target ham't been
peachest. Howary it conte argued this in the
Case of Seer in Copia Ricin, who is
described by the goographer Pussel
Chapmen as hours backed the Ideforestations board. In 1975 ande
Ideforestation) food! In 1925 center
Improve presure to bother the
towher export industry, 75% of the
The was sle forested, he capitalise of their
mahagang trees, this resultal in bisdiverity
Lally by 67%. Hours in 1980 - Kircal,
talling by 67%. Howey in 1980 - Korcat, The Children eternal rainforest us, launched
whose primary arm was to generate
Covenue, to Finance the capter and
restaration of the lumbrage both economically
and in segands to century the TRU.
(SEE AMUER BOULLET PIGE 6, 6-5)

48

END OF QUESTIONS







Question number	Additional page, if required. Write the question numbers in the left-hand margin.



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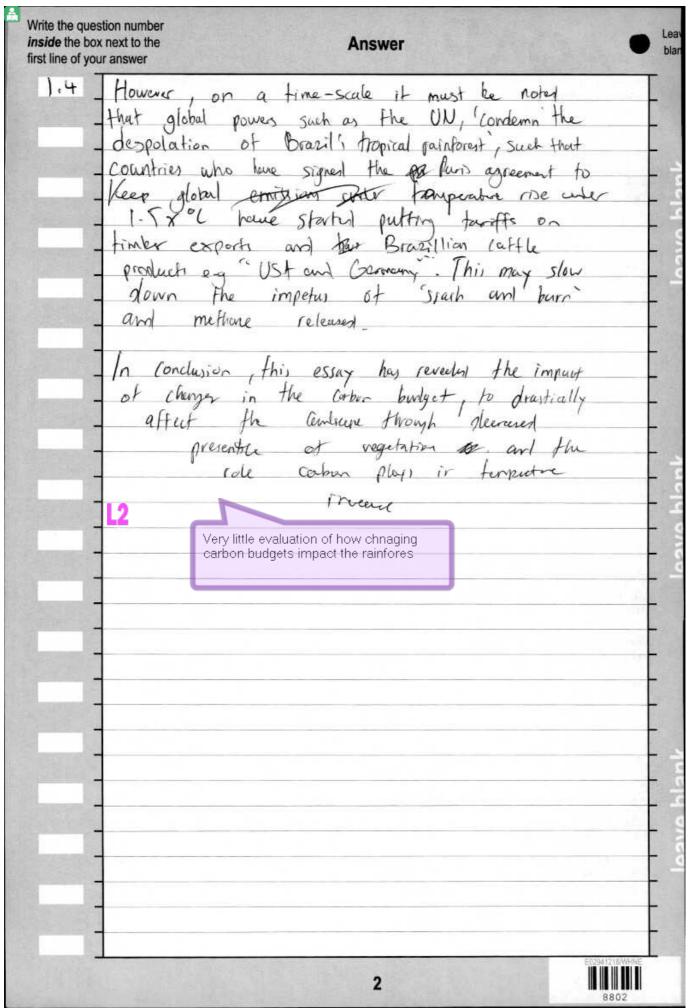
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Other Names:		1-
Your Signature:		
I declare this is my own work.		
lease write the Paper Reference and your Centre Numbe		Total
Vrite in the white box how many answer book	ar and Candidate Number on each book acil or gel pen. Do not use correction fluid. aite areas of the book. left hand margin at the start of each answer e.g. er, fill in the box completely and write the question have filled in.	OI-I
In the white box how many answer book lease write the Paper Reference and your Centre Number and tag them together if possible INSTRUCTIONS TO CANDIDATES Use black ink or black ball point pen. Do not use pen Write the information required in the spaces above. Use both sides of the paper. Write only within the wh Write the question number in the box provided in the If you make an error when writing the question number number in the space immediately below the box you h Leave at least two line spaces between each answer. Do all rough work in this answer book. Cross through of this book. All work must be handed in.	are and Candidate Number on each book acil or gel pen. Do not use correction fluid. alite areas of the book. left hand margin at the start of each answer e.g. are, fill in the box completely and write the question have filled in. an any work that you do not want to be marked. D	OI-I n o not tear out any part
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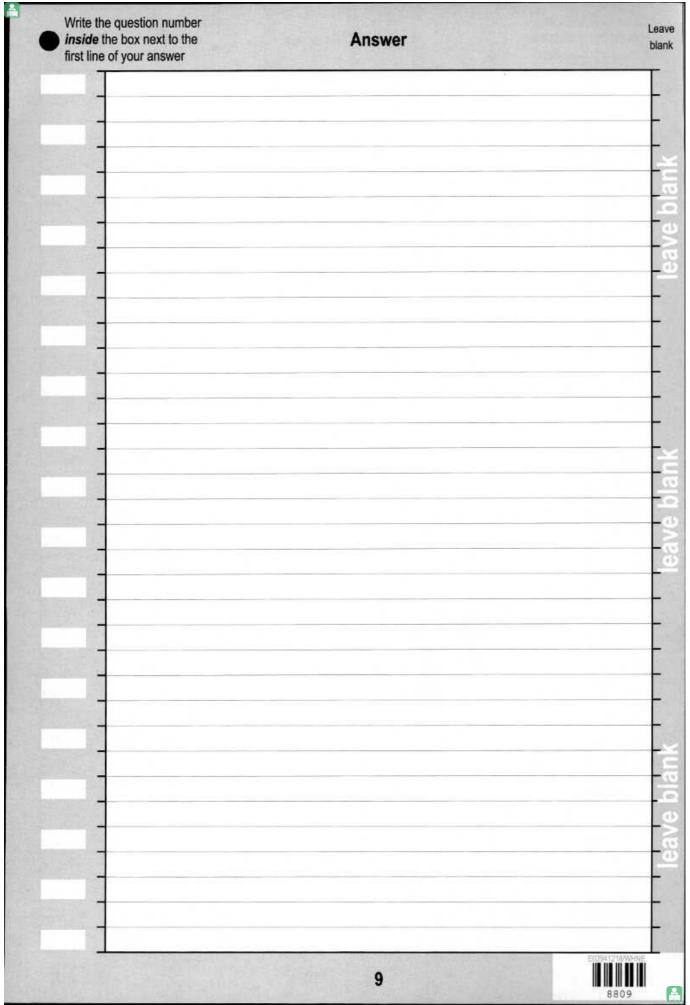
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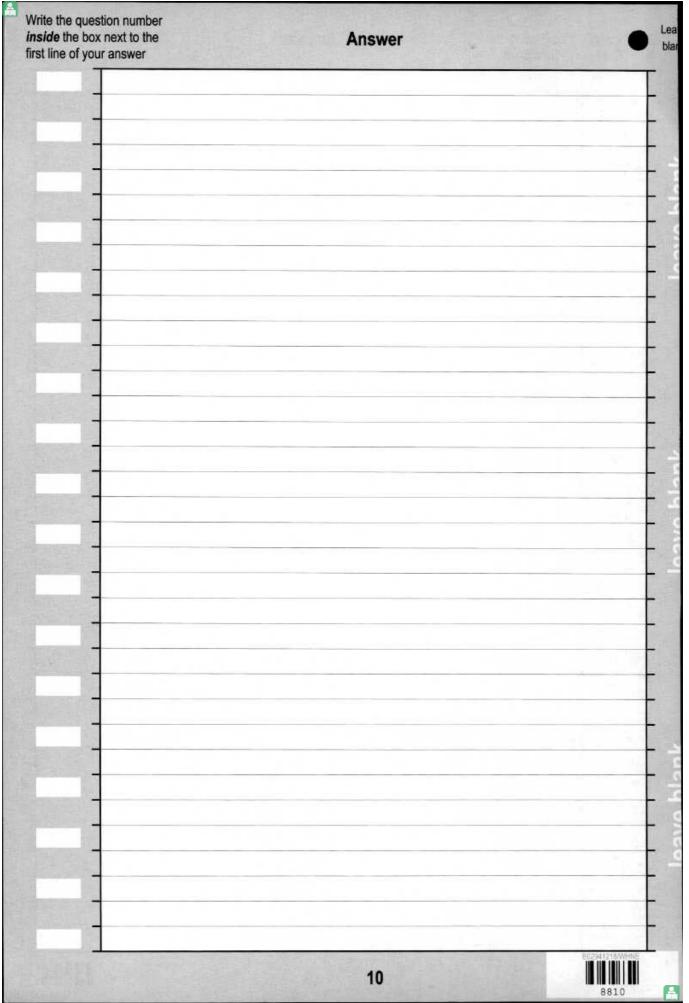
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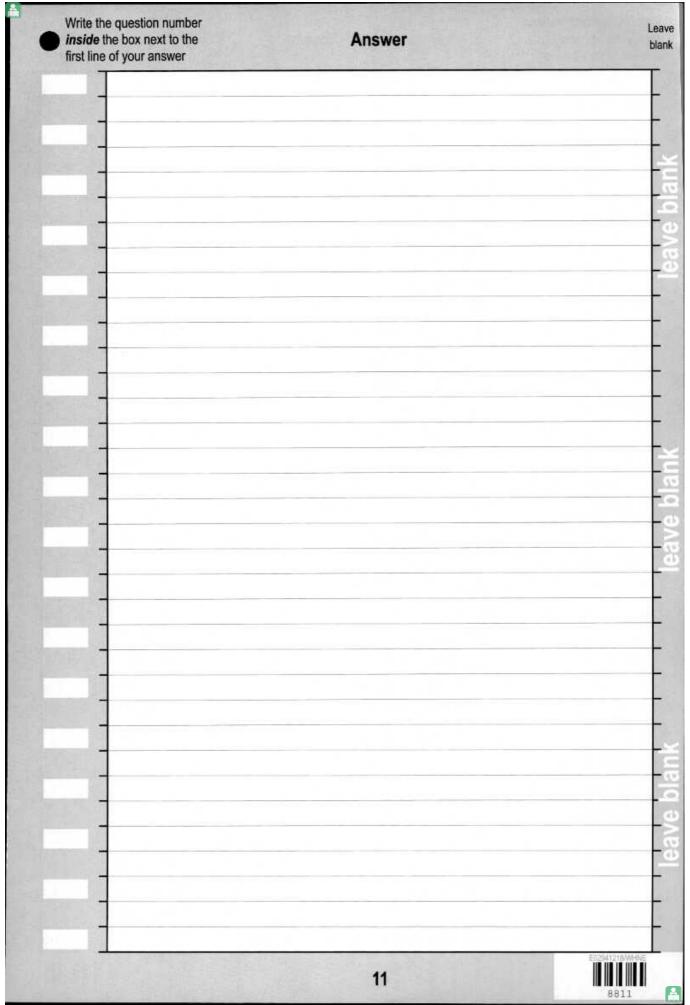
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