Candidate Marks Report

Series: 6 2018

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.

Centre No : Candidate No : Candidate Name :	Assessment Code : Component Code :	
Total Marks :		

In the table below 'Total Mark' records the mark scored by this candidate. 'Max Mark' records the Maximum Mark available for the question.

Question	Part	·
3	а	10 The estimation were not made in the vanie
		year lat the same time
		12 The areas of oceans are vary vaniely
		ie Antartic region is much larger than
,	:	Of waiton Amas'
		3) The names of some areas are very
		basic & 4 people will not know the
		size of the area used in the
,	•	estimate. Of Wasten Greenland" &
,		very varque
3	Ь	Nutrients in the oceans are the
,		foundations of earth's ecosystem. There are
		foundations of earth's ecosystem. There are many variences in the numeral leads and
		types at different parts of the ocean
	,	
		Near the suface of the oceans numer
	,	lovols are relatively low in companion
		to deeper water As magning decompose
		their numberts slowly fattich to the
-		their numberts slowly fatherink to the bottom of the oceans This is called
	-	Marine snow which are high amounts
		of numeral neaver the deeper depths of
	<u></u>	of numerity neaver the deeper depthy of the oceans. The supply of these numerity
		is defendent on the rate of decomposition
<u></u>		la wither in the shallower water That
	<u> </u>	can vary one factor is the amount
		of warmth in the ocean which
		increases rates of decomposition
		and the second of the second o



Question

Question	Part	
	ا ن دو	Carry 1
		Numer supplies to the ocean can
		also be found near the surface in
	١	the photic layer. There are water
		that are deep enough to allow the
	·	suns energy to be copyumed by
		organisms, such as phytoplantion, that
	. •	gran and reproduce by using the run
1		enorgy for photosynthesis. This development
		d merouspi organismi hold produce
		a systemable food chair Allaring these
		rubients to be passed along it to link,
		then to seals. Areas with
5	a	1) There is no explination of how the
		people died. For example, were the
	<u> </u>	deaths due to a sunami or buildings
		Collapsing
		2 Not many occial compacts listed as in, no
		mention of what the quaker did to
	, ,	those who want lose their wes
		3 No indication of what was done
		to reduce the impacts expenenced by
*.		humans, ce modolym vulnerability
<u> </u>		3) See additional booklet.
-		
5	<u>، هر .</u>	Explosive volcanoes are most commany
		found at convergent plate boundaries
		such as Mount Meapi in Indonesia,



Question

infore the Curavian plate meets the Indo-Australian Plate. Explosive and efficient voys from the type of material ejected to the hape of the (andrape of a result of the enopher) Stratovoleanoes are commonly the course of explosive volcances. These enophers are deemed as explosive due to the riving magna from the (ithaphere (being viscous) blooking up the vorts in the volcanoe. Over time pressure increase and suddenly a large enopher, ejecting viscous large explodes due to high amounts of pressure. The large of viscous meaning it is class moving which is when these volcances build up to a cone like chape.
Indo-Australian Plate. Explosive and efficient voys from the type of material ejected to the that of the Candrage of a result of the enighter. Stratevoleances are commonly the course of explosine volcances. These enights are deeped as explosive due to the rising magna from the Lithaphere (being viscous) blodwing up the verts in the volcano. Over time pressure increase and suddenly a large emphas ejecting triscay lava explodes due to high amount of pressure. The lava of viscous meaning it is show maring which is when these volcanoes build up to a cone like shape.
effurive volcances erupt in von different ways from the type of material ejected to the mape of the Candrage of a result of the eruption. Stratavolcances are commonly the round of explosive volcances. These eruption are deemed as explosive due to the rising magna from the Cithaptere (being viscous) blodwing up the verts in the volcano. Over time pressure increases and suddenly a large enuption ejecting viscous land explodes due to high amounts of pressure. The laws of viscous meaning it is downwang which is when these volcances build up to a cone like shape
different ways from the type of material ejected to the chape of the (andrage of a result of the eneption) Stratovoleanoes are commonly the round of explosure volcanoes. These eneptions are deepned as explosure due to the rising magna from the Whaptere (being viscous) blodwing up the verts in the volcano. Over time pressure increases and suddenly a large empton, ejecting viscous lavae explodes due to high amounts of pressure. The lava of viscous meaning it is show maring which is why these idvaroes build up to a cone like shape.
shatevoleanes are commonly the round Shatevoleanes are commonly the round desploane volcances. There employ are deemed as explane due to the rising magna from the Whaphere (being viscous) blodwing up the vorts in the volcano. Over time pressure increase and suddenly a large employ, ejecting viscous lavae explodes due to high amounts of pressure. The larse of viscous meaning it is slow moving which is why these volcances built up to a cone like shape
Stratovoleanoes are commonly the round of explosive volcances. These employ are deemed as explosive due to the rising magna from the Whaptere (being viscous) blodwing up the vents in the volcano. Over time pressure increase and suddenly a large employ, ejecting viscous lavor explodes due to high amount of pressure. The lava of viscous meaning it is downwaring which is why these volcanoes build up to a cone like chape.
Shatovoleanses are commonly the source of explosine volcances. These eruphing are deepned as explosing due to the rising magna from the Lithaphere (being viscous) blodwing up the vorts in the volcano. Over time pressure increase and suddenly a large enuphia, ejecting viscous lava explodes due to high amounts of pressure. The lava of viscous meaning it is show moving which is why these volcances build up to a cone like shape
are deeped as explave due to the riving magna from the Lithaphere (being viscous) blodwing up the verts in the valeano. Over time pressure increases and suddenly a large emphos, ejecting viscous lava explades due to high amounts of pressure. The large unit is show maring which is why these valeances build up to a cone like shape
are deeped as explave due to the riving magna from the Lithaphere (being viscous) blodwing up the verts in the valeano. Over time pressure increases and suddenly a large emphos, ejecting viscous lava explades due to high amounts of pressure. The large unit is show maring which is why these valeances build up to a cone like shape
are deemed as explained due to the rising magna from the Whaphere (being viscous) blodwing up the verts in the valeano. Over time pressure increases and suddenly a large employ, ejecting viscous lava explades due to high amounts of pressure. The lava of viscous meaning it is slaw moving which is why these valeances build up to a cone like shape.
rising magma from the Whaphere (being viscous) blodwing up the verts in the volgano. Over time pressure increases and suddenly a large emphos ejecting pressure the large amounts of pressure. The large is viscous meaning to i day maring which is why these ideanoes build up to a cone like shape.
viscous) blodwing up the verts in the volcano. Over time pressure increase and suddenly a large employ, ejecting triscous lavor explodes due to high amounts of pressure. The law of viscous meaning it is show making which is why these volcanoes build up to a cone like shape
ond suddenly a large emphor, ejecting viscous lava explodes due to high amount of pressure. The law of viscous meaning it is show moving which is why these indicaroes build up to a cone like shape.
and suddenly a large emphor, ejecting VISCOUS lava explodes due to high amount of pressure. The law of viscous meaning it is show moving which is why these indianoes build up to a cone like shape.
viscous lava explodes due to high amounts of pressure. The lava of viscous meaning it is slow moving which is why these volcanoes build up to a cone like shape.
which is why these ideances build up to a cone like shape
which is why these vacanoes build up to a cone like shape
up to a cone like shape
Explande propose a greater three
transfer and a contract to the
ENTOTAL ENGINEER OF THE CONTROL OF T
to human than offine eriphon Due
to a large increase in pressure the
makenal erupted is faster moving and
the tyroclastic flas are fast maring
clouds maring down the side of the
voleare consisting of lawn boulders
and ash they destroy almost anything
in their path Another type of nater

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Question	Part	
		that an explosive eruphon can cause is
	}	lahas Lahas are a warm concrete
		like, fast maring result of an emphism
		Containing boulder & ash they also
		like, fast maring result of an emphion Containing boulders & ash they also dostroy almost anything in their path.
8	· · · · · ·	Ocean processes can influence the
	,	carbon cycle in a number of
,		significant ways, which alter the
		dimate that humans live in
,		
	,	One way in which ocean influence
		carbon In the last 250 years ocean have abrorbed roughly 30-40%
		carbon. In the last 250 year
		ocean have abrobed toughly 30-40%
		of man mate released carbon Making
		This influences the cooper cycle by
		his influences the carbon cycle by
		remaining the amount of contain the
		prosphere. As a result, they will
		reduce the amount of sdar radichan
	. <u>.</u>	being Locked into eastly-atmosphere thus
		roducing the rate at which global
		warming occurs
,		Another way in which ocean processes
		influence the carbon eyele is by
. 1,	1.	the way in which to ocean are one
		of the largest stores of Joseil Juels.
		- -



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Question	raii	- day
,		Hor Minerals in the ocean are heavy
		contested for, especially who valuable
;		resources like od or gos can be
		mined For example in the Arctic,
	,	the WA & Russia are contesting
		heavily for the oil store of up to 9
		bellion barrels. Oil is a source of
		caston, and of this notured resource
		was to be explaited 4 used vost amounts
		of larbon would be liftued into the
		atmaphere pathing strain on ocean
_		processes and ecosystom. Such as cord
		roefs that are facing wodespread
		disruption as a result of ocean
		acidification due to large amounts of
		earbon being diffued into the sea.
	•	
10		Tectonic hazards impact global
		migration significantly. Many reasons for migration is due to people becoming
		migration is due to people becoming
		refugees as a result of tectoric harards.
		hazards.
		Tectonic hazards impact global
,		rectonic hazards impact global migration because due to the negative effects that are especially apparent in LIDCI. Tectonic hazards can destroy a passons life leaving many with vitually
		effects that are especially apparent in
		LIDGE Tectoric harards can destroy
		a persons life leaving many with virtuelly
· 		1



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Question

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Question	Part	
	. 1	nothing. For example the 2010
ı ,	1	earthquake in Hout caused 220,000
,		deathy and 287,000 injunes. As a
		result of poor building regulation
-	· ·	1-9 million lost their homes and become
		refugees With only 10% of people in shelters having a roof over their
		in shelters having a roof over their
		heads it is no suprise why many
		deuded to migrate. As a result of
	·····;	the 2010, January easthquelles many Harriwary fled to Brazil. As a result of
-		Machinery fled to Brazil. As a result of
		the earthquale millions were forced to
		migrate.
		A = 11
		Another way in which tectoric hazards
		impact global migration is by
	· · · · · · · · · · · · · · · · · · ·	may movement of people who want to migrate in fear of what the beckeni
	,	harade many Mark For and in
	 	harards may inflich For example in Steep Indonesia 34 of the population
		live within looking an achive volcare
		Although many cannot myrate due
		to economic reason those who do may
		Come with the intent to away the
		potential danger of tectario hazardo,
	-	such as pyrodaste flag & lahar
	• ;	
,		Tectorie hazards may also impact global
1.4.		Tectorie hazards may also impact global migration due to the threat of ask clouds,

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Question	Part	
		causing the potential of externational
		airs and to temporarry shut down due
		to rish of damaging the planes ergine.
		Avighon is one of the main routes
	_	Aviation is one of the moir routes for people in ACG or EDCs to
		marate of
	·	Overally bectonic hazards can impact
		Aldod migration in a vanishy of ways
		from a delay in Hight to the forces
	•	from a delay in flights to the forced migration of millions
7		great barrie reef
	•	deep water horron
15	-	In the last 250 years, oceanic
		pollution has been increasing in a
		linear way . There are many factors
,		that contribute to increases in oceanic
	 ,	pollution but the primary contributor
		for the increase in oceanic pollubia a
		du to economic reasons
,		, , , , ,
	,	One of the main contributors to
_		occanic pollution is whon an event
	,	releasing our nellulante orcur In
		2010 in the Gull of Mexico a
		releasing pure pollutants occur. In 2010, in the Gulf of Mexico, a BP oil mg malfunctioned, causing 89
		day of content or hains included onto
		the organ floor adding in to 8.9
		days of constant oil being spilled onto the ocean floor adding up to 8.9 billion gallow to be released into the
		The state of the s



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Gaconon		,
	1	oceans. Och mining is an direct economic
		activity that has proven to be
	<u> </u>	deminental to the oceans. As a
		result of the od spill oceani
,		pallutant levels rose significantly As
		a result of the oil spill, many the
		land a oceanie pollution is creased.
		Deep water honzon lead to many
		marine ecosytemy being impacted with
		large areas of the surrounding the area
		being cord the oil settled datroying
		Many habitate of even a whole
		ceaseston. Him was one
	· . 	Another economic activity factor that
	٠,	accounts for riving levels of oceanic
		pollutants into the ocean shipping of
	·	pollutants into the ocean Phipping of
		goods is one of the main. methods in
		the organizer with the majority of
		to a could fruit which of other
		fuels toly emmer lege amount of
		pollutants into the oceans. One example
		of where this is apparent is on the
		east coast of Australia. Major shipping
	-	routes are to be contructed resulting
		in the aggregation of coral reef econytemy
		in the degredation of cord reef ecosytemy in the Great Damor reef. Being home to 25% of marke bromas and containing
		200 g marke broman and containing
	-	



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Question

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Question	Part	
		10% of global job the Great Barrier Reaf
		a the largest lung thing on earth The
		economic factors, resulting in an increase
		in oceani pollution can prave to be
		hamful to human, Such as cord
		reefx act as a natural cooled
		defence in reducing wave energy To
		is estimated that eard reeff save human
		Il billion a year. In industry,
		Ble billion a year. In industry,
		into the atmosphere each day. With
		oceanix waters absorbeing 30-401.
		man made emin carba produced
		by para human para Ocean acidefication
		a proving to be very hamful to cord
		rumber of endangered coral hos increased
		From 2 to 22 including staghorn
		Al soan in
		Jigiere 1, 9 there
		as a trend in
		the incorpose in
		uptake of CO2 3 PM
:		and temperative
		to ia dierecal i ins me in.
		an molling In Time -
	-	the next 50 Figure 1 is absolut
7.		George Cation dients
		alcidity could thonge
		t. '



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Question	Part	
	1	the from 8 fall from 8 2 to 8 2 pto
		7.8pl. The would have a regalise
		empack on coral as acorder condition
		reduce cords ability to carbonate this prevoting
	. 4	than from tato reproducing (clobal shipping and emmission of CO2 contribute
		and emmission of Continuity
		significantly to an increase is exercise pollution of (see additional booklet)
. ,		paulvon & se adding sodille
		Ova-11 accomora la la
		Overall, economie factor are the
		pollubren. From events like Deep water
	· · · · · · · · · · · · · · · · · · ·	Honzon to which releases a pollutant
		directly into the ocean to the emmora
		a con industry boing abrabed
		by becam algrading manne life
,	•	potentially having the way is which
	+ 3	humans interact with oceans from a
		loss in employment & income Patashely
		puthing the 1.2, billion who are dependent
<u>-</u>	• • •	on ocean at risk.
		Maria Cara Cara Cara Cara Cara Cara Cara
10	4	For Agant
10	plan	1 Square
		hazard', mapping
		· Cross procures [Case studies.
	P	
		- counter weights LIDC Indoness.
1		



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Question	Part	
20		Earthquakes pose many patential hazard
	1	that could impact on human life. There
		are a vanish of ways in which
		nuhgation can be carried out to
		reduce Imanage hazards arrive from
		earthquaker. Howary the extent to
		which the hazards are managed is often
		down to the economic capabilities, and
		the understanding of transfer potential
		hazards caused by earthquaker.
		One way in which it is possible to
		manage harards aring from earthquakes us by modifying the vulnerability of a
1		u by medifying the vulnerability of a
	•	place that is succeptable to harards. For
		Oxas one way in which this can be
		done às through building regulations and
		Construction This could ento include
	•	doep foundations on land that is
	-	prone to liquipaction reducing the
		chance of buildings collapsing, haming
		counter weights ontop of a tall building
		breventing it from swaying too much
		earthquites ground vibration An
		example where this is apparent on
	·	many buildings in in For Tolya
		Japan Also, in a Police station in



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	Unit code	М	4	8	ŀ		0	•
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Write here how many booklets you have used in total

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4 PAGE CONTINUATION BOOKLET

Write the information required clearly in the boxes above using capital letters.

Question Part

20		Wellington, Naw Zeland that has been
		constructed with a cross bracing, design, to
		absorb the energy of vibration. // Another
		way in which the event is modified is
		through education programs. This can help
		to reduce the impact on human lip
		by allowing people to have an understanding
		of what to do in the event on an
		carthquake. In Indonesia, there is a
	-	national earthquake awareness day which
		teaches its population what to do in the
	,	event of an earthquake It is also recomended by the national garanment
		recomended by the national garanment
		to have a ready-to-go bag ensuing
		a quick and easy departure from places
	<u> </u>	where a nich to human life to be

This document consists of 4 pages

CONTINUATION BOOKLET © OCR DC (SLM) 77107/6 3R



Question Part te _@OCR

		. 3
Question	Part	
		aning from partiquation
	١	the LIDC Hailing a
	_,,	earthquake shruch in 20
		220,000 there was va
		modification of vulnerability
		the vost majority of b
		comply to standard bu
		Leading to the name
		sandwhich effect occurs
		thousands of deathy. Al
		the ports in Kaikis cap
		Prince were destroyed co
		eignificant delay to the
		Moiti became dependen
,		with the () suppliered
	•	help clear and dot

help clear away clob nie. Mavarer, a year later, only 5% of debnis was cleared indicating that there was still not enough done in the afternath of the avent.

In conclusion, it is possible to manage patential hazards aring from earthquakes, howare, it is dependent on the country avanament in its in willingness to medify vulnerability and loss prior to the avent With earthquakes being atom very compredictable populations must aim to reduce the impacts before they occur. One example



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Question	Part	
, .		of where this has been succeptul and
		in Japan whereby only a small factory
		that that docthy, in companion to the
		smaller we earth quele in Mais.
	·	
	·	
<u></u>		611
5	<u>a</u>	@ No magnitude given to the Sechian earthquelle, meaning you can't got a
	-	eartiquelle, meaning you cont got a
		sense of how magnitude correlates to the doubt toll. (It is given for Nepals
	5 1	the douth toll. It is given for Nepals
		earthquake)
15		* 1 1 100 100 100 100 100 100 100 100 10
10		in the world stated, David Attlebrough
		states "Coral regs as we know than
		could be extinct by the end of the
	·	continue be en use by the end of or
		Carried .
		
	:	

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