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 : Assessment Code : J384
Candidate No : Component Code : 03
Candidate Name :

Total Marks : 56 / 60

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

Paper:	J384/03
Paper Total:	56 / 60
Question	Total / Max Mark Mark
1ai	1 / 1
1aii	1 / 1
1aiii	0 / 1
1aiv	3/3
1b	2/2
1ci	1 / 1
1cii	2/2
1d	12 / 12
2ai	2/2
2aii	1 / 1
2b	3 / 4
2c	6/6
3ai	1 / 1
3aii	2/2
3b	4/6
4	12 / 12
4SPAG	3/3

Answer all the questions.

1

(a) Stud	dy Fig. 1 in the separate Resource Booklet, a GIS map of Rio de Janeiro.
(i)	Identify one human feature of Rio de Janeiro shown on Fig. 1.
	It is the gety book - Up, with morning 5 and Main made (and is no 101)
	There is an airport (the dum do Governador) [1]
(ii)	Identify one physical feature of Rio de Janeiro shown on Fig. 1.
	It is coastal (wh lagoons and islands)
	[1]
(iii)	The city boundaries of Rio de Janeiro in 1900 and 2015 are outlined on Fig. 1.
	Estimate the area of Rio de Janeiro in 1900 in km².
	10 km ² [1]
(iv)	Using Fig. 1, describe the location of Copacabana Beach.
	Copacabana beach is located in South-East Riose Jeneiro, on
	the south coast. It was part of the de Javeiro back in 1900
,	and is situated in the Copaca song area, just roughly 5km south
	of the centre of Riode Joneiro (i'e around Sonta Teresa). The beach
	is just east of the Parque Nacional day Tijuca.
	[3]
(b) Stud	ly Fig. 2 in the separate Resource Booklet, photographs and reviews of three coastal
aŗea	as in Rio de Janeiro.
	e two human uses of Rio de Janeiro's coastal areas seen in Fig. 2.
1	rey are used sor leisure octives (such as beach football)
2	ey are used for mooring yachts
	[2]

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(C)	Oracle Land In the separate E	resource bookiet	, beach manager	nent strategies us	ad in biazii.
	, *				•
	450 metres of Copacabana E	Beach, in Rio de	Janeiro, needs o	coastal manageme	ent to avoid
	widespread coastal erosion.				

(i) Calculate the cost of rock armour for Copacabana Beach.

11 45000

Using your own understanding, suggest whether beach nourishment of rock armour would be most appropriate for coastlines with high levels of erosion by hydraulic action.

Beach noorishmy would be most appropriate. This is because

to remain happening even with beach nourishment, whereas

rock amour is espective at absorbing wave or many so [2]

and is longer lasting.

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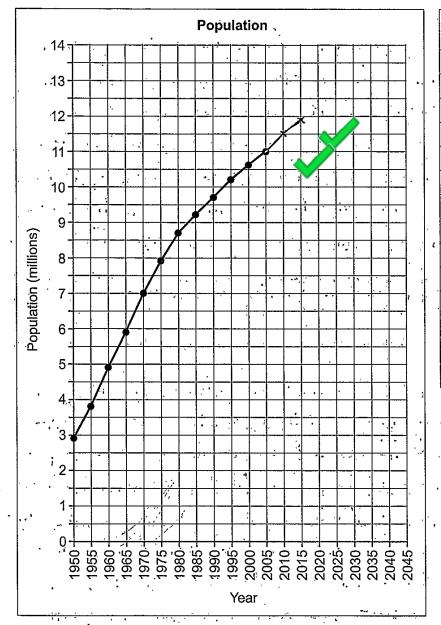
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(d)* Study Figs 3 and 4 in the separate Resource Booklet, beach management strategies used in Brazil and a sketch showing impacts of beach nourishment (beach replenishment) at Copacabana Beach.

Using Figs 1, 2, 3 and 4 and your own understanding, explain how challenges in the city of Rio de Janeiro affect the coastal landscape.

Inequadate sewage disposal systems is regatively accepting coastal Coastal areas such as the Maraperd; Lagoon are polluted by 's favelas (squatter settlemont) Thes poor areas DEVILIS challege causes waste to be lige and inadequate access 1 Jobish higherted the city now stretching roughly 60km West-to-East, is putting pressure on service perheloing to cause the agarementioned challenges. The accumulation of rubbish agrects the coastal landscape popularity of kio as a tarist clestination, and the providing except accomposation, particularly along popular beaches, has coastal landscape through encouraging high-rise hotels/apartments along the share and the the challenges a longshore drift and hydraulis action along

2 (a) The graph and table below show the population of Rio de Janeiro.



Year	Population (millions)
1950	2.9
1955	3.8
1960	4.9
1965	5.9
1970	7
1975	7.9
, 1980 ·	. 8.7
1985	9.2
1990	9.7
1995	10.2
2000	10.6
2005	11
2010	11.5
2015	11.9

Complete the li		using the table	of data prov	ided.	[2]

(ii) Predict the population of Rio de Janeiro in 2040, based on the current growth rate.

14 Million

[1]

Turn over _





(b) Rio de Janeiro can be considered a world: city.

Explain the characteristics of a world city.

A world city is a city that is tendent of tendent to have a very large population. They are often (but not always) the capital city of their country. World cities are normally located on coasts or civers or another body of water. They tend to have to a powerful financial sector and exercise have high levels of tourism, both national and international. World cities tend to have well-established justile-education/research networks. They are often home to a major starts teamler, and have a diverse population. Their population is often largely consisting of young adults.

(c) Study Fig. 5 in the separate Resource Booklet, statistics for Rio de Janeiro and Brazil.

Using **Fig. 5** and your own understanding, explain why Rio de Janeiro has experienced rapid urban growth.

Firstly, Rio has experienced rapid urban growth because it has a than the majority of Brazil, encouraging there. & The average northly rome per \$563, compared to \$375 for Bigzilpethremplays is at 6.8%, compared to 12.6% for the rest of the country. Rio has 2.56 dectors per 1000 people compared to Brazil's 1.89. All of these factors lead to an improved quality of like in Rio than the Brazil, as perfe those in Rio have more money, better healthcore, etc. This then encourages rapid urbanisation to this, from people (particularly in poorer rural and better living standards/ access to service DEVRio rapid urban growth becoming unemployed (the country has a high 12.6% unemployment rate, which would likely higher in poor rural in extension booklet)

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- Study Fig. 6 in the separate Resource Booklet, a map of Botafogo, a suburb of Rio de Janeiro, and Fig. 7, photographs taken in the Santa Marta squatter settlement (favela).
 - (a) (i) Use Fig. 6 to calculate the distance in km from (A) Santa Marta to (B) Botafogo beach.

[1]

Santa Marta is one of the squatter settlements found in Rio de Janeiro. Using Figs 6 and 7, briefly explain one challenge people living in Santa Marta may face: People living in Santa Marta face the challenge that is living on very steep land. This makes it difficult to construct buildings with buildings it vulnerable to landslides. It also isolates the area

from the rest of the city, and travelling in Steep areas is [2]

difficulty on alongside making it hower to install water/road ingress

(b) Using Figs 2, 6 and 7 in the separate Resource Booklet, and your own understanding, assess

the contemporary challenges created by the inequality within Botafogo.

Botagogo has caused the challenge of a deep to services, which is a major challenge. divide between accesse

Wealthier parts of Botagogo are situated on the glat land by the beach. This is more ideal for for housing, but has pushed poorer citizens into "living on steeper land, such as how Jourta Marta

is on a hillside. These poorer citizens have less money, and so their

hillside houses are vulnerable to landstide This also causes suggicient transportstructure (which is hard to build on hills) and poorer areas to lack access to public spreas, with a large park high judicity

in the wealthier part of Botagogo, alongside Lacking sonitation

aid water accessibility. This causes communities to have to share

water tag, and leads to water pollution of the coast due

for inadequate waste disposal DEVI formand Provious [6]

favellas with better ingrastructure roud & reducing the bottom

all

port water's pollution (along the coast) are bottom major challenges caused by wealth inequality in Botagogo. To conclude, the contemporary challenges in Botagogo (created by inequality) are sometimes very serious.

Turn over



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RIO DE JANEIRO IS BANKRUPT FOLLOWING 2016 OLYMPIC GAMES

Rio de Janeiro warns other Olympic host cities of the hidden costs of hosting the games as they struggle to pay for public services in the city. One resident said, "We hosted a fantastic party but now it's a desperate situation. We simply do not have enough money to pay all of our bills and this means that we are facing huge cuts".

Rio de Janeiro is facing many challenges, both physical and human, and, as outlined in the article above, the city now has a very limited budget.

Using the information in the separate Resource Booklet and your own understanding:

 Examine whether you think that Rio de Janeiro should prioritise coastal management or improving the squatter settlements (favelas) over the next 10 years?

- .2. Suggest how your decision could lead to long-term sustainability for the city.
- Rio de Janeiro should prioritise improving gavelas ave the next 10 years over coostal management. Coostal principal Rio's gavelas are home to a large proportion of the tag city's population, and treaty's population rise, of these squatter settlements are likely to expand. These areas, however, lack services, with communities (such as in Santa Marta) having to share water taps, limiting its availability, and due to their ste geographical position on the point transport inconstructure. Moreover These issues need to be achiessed.

 By prioritising the improvement of squatter settlements, those living in these areas, will become more integrated into society and with experience better qualities of life. Although coastal management is important, as the beaches are a ragior leisure/tourist arthraction, bringing money into the city, problems such as

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polluted water in Marapano; Lagoon and Botagogo beach, and crime in Copocabana Beach, which discourage tourism, largely sewage in Copocabana Beach, which discourage tourism, largely sewage sewage.

Stem from a lack of wealth / satisfies infrastructure in frastructure in favelas. Thus, the government should prioritise improving favelas.

Timproving favelas will lead to long-term sustainability for Rio for a variety of receipts—Firstly, it will help tackle crime, among the main gastors limiting tourism (which brings in money, as tourists spend in local businesses), and a major social issue in Rio. The city suffers from high levels of crime; but [12]

(continues in extension pages).

Spelling, punctuation and grammar and the use of specialist terminology [3]

END OF QUESTION PAPER





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ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

10	have caused the government to use beach nourishment
***************************************	of in popular beaches (such as Capacabana beach) and
	wider the coastal road (to act as a berrier). This
· · · · · · · · · · · · · · · · · · · ·	has constal areas, the keeping them beaches
	large and full of soud, and has helped protect sea-side
·	buildings during Storms/very high: Fides: Howard
	louidings during Storms/very high Fides: However 1- weekers
	L4
2c	(auses many rural workers to have little phoice but may
***************************************	to cities Desuch as Rio, in search of employment as
	employment opportunities in rural areas are limited.
***************************************	This increases Rio's population. Finally, the fact that
	Many younger people move / have moved to Rio in
***************************************	search of a better like leads to high birth rates,
***************************************	as these young adults have comilies, helping to contribute
,	to capid population growth.
	1 20
4	This predominantly stems from the coweles. By improving the favelas, they were will provided a better quality of life and
	cavelas, they areas will perfield a better quality of life and
••••••	will provide better opportunities to the residents, so gewer
***************************************	people will commit crimes, reducing this vsocial issue, ensuring
	long-term sustainability. Next, by improving favelas (and thus
	their sewage ingrastructure), # less sewage will be
	pumped into the city's teaches. This will improve the water
	4 i

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C	1		
		•)

	quality (achieving environmental sustainability), will encourage
••••	tourism (achieving economic sustainability) (this will happen
;	because tourists like uppolluted water sources) and will help
•••••	beaches become nior leisure spaces (achieving social
	sustainability). Finally, improving cavelas will lead to a
	More educated & population of Rio Cas More people will
•••••	have received a good education), so these people will
•••••	be more likely to take part in higher skilled jobs, which
	generate more money for the Rio government, thus
	ensuring economic sustainability. Therefore, improving
• • • • • • • • • • • • • • • • • • • •	favelas is importent.
•••••	Ap.
••••••	* (noting currently a school day in faveles is often only
	bur hours, so improving these weres will lead to
•••••••••	improvement in the quality and duration of education)
	* Furthermore in Medellin (Colombia) the government 495
*************	recently invested in improving poorer oreas, such as
••••••	by creating new bus links, and this has yielded lower
*************	crime rates and higher on improvement in the quality of life.
•••••	
••••••	L4
	······
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Off Page Comments

Item Name	Comment
3aii	The candidate has also made a second valid point about transport in steep areas but has already reached full marks.
2b	'Major sports team', 'Large population' and 'capital city' are not credit worthy.
1d	This candidate reaches L4 12/12 when they make the second developed point ending 'High trophic levels'. This candidate has also provided further challenges. If a candidate provides more than two challenges, credit their best 2.
4	The candidate has responded to all 3 parts of the question and each are well developed, therefore, top of L4.
2c	L3 6 Marks. Two well developed answers. (This contains a third point, developed to L2 as there is no link to figure 5)
3b	Several level 2 points made but none developed enough to access L3
1cii	No credit for repetition of the question
1aiv	All 3 marks have been gained in the first 2 lines. However, there are other creditable responses eg 5km, South of the centre, East of Parque Nacional.
1b	Beach football is also creditable