Pre-release 2019 – Tropical rainforests and development

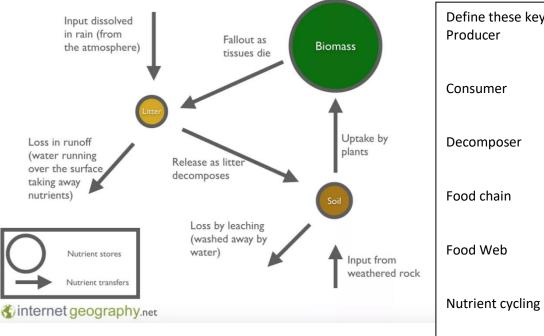
	Using the map in Fig	ure 1, des	scribe	the dis	tribut	ion of	tropio	al rair	nfore	sts (3	3 mar	ks)	
	Hint – where are rainfo	orests? Us	e conti	nents, l	ines of	latitu	de, cor	npass	directi	ions			
-													
	How does the location	on of trop	ical ra	infores	sts aff	ect the	e clima	ate (2	mark	s)			
t	- why is it hot and wet	in rainfore	ests?										
-													
_													
_													
3.	Complete the climat	e graph b	pelow	using t	he De	cemb	er dat	——— a (2 m	arks)				
3.	Complete the climat	e graph b	pelow	using t	he De	cemb	er dat	a (2 m	arks)				
3.	R 4	e graph b	pelow	using t	he De	cemb	er dat	a (2 m	arks)				
	RANK S	00-	pelow	using t	he De	cemb	er dat	a (2 m	arks)	×		- 30	(c)
	RANK S	56-	pelow	using t	he De	cemb	er dat	a (2 m	arks)	×		- 30	(°C)
•	RANK S	56-	pelow	using t	he De	cemb	er dat	a (2 m	arks)	×		- 30	MP. (°C)
•	Rainfall (mm)	56-	pelow	using t	he De	cemb	er dat	a (2 m	arks)	×		- 30	TEMP. (°C)
	Rainfall (mm)	50 - 50 - 50 - 50 -	pelow	using t	he De	cemb	er dat	a (2 m	arks)	×		- 20	TEMP. (°C)
3.	RAINFALL (mm)	50- 50- 50- 50- 50-	pelow	using t	he De	cemb	er dat	a (2 m	arks)	*		- 20	TEMP. (°C)
3.	RAINFALL (mm)	50- 50- 50- 50- 50- 50- 50-	*	×	1 ×			×	×	*	b	- 20	TEMP. (°C)
3.	RAINFALL (mm)	50- 50- 50- 50- 50- 50- 50-	*	using t	×			×	×	*	Ь	- 20	TEMP. (°C)

Trend rainfall, using data (max/min, seasons, range______

5. Describe the climate of Manaus in the Amazon rainforest.

Trend temperature, using data_____



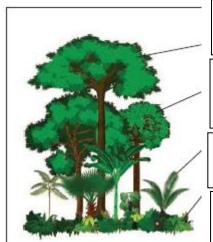


Producer
Consumer
Decomposer

6. Describe the role of soil in the rainforest nutrient cycle (3 marks)

Using the section of text at the bottom of page 2

- 7. What percentage of the world's biodiversity is in the tropical rainforest?_____
- 8. How many species of plants and animals are found there?
- 9. In the Amazon rainforest how many species of fish are there estimated to be?
- 10. In the Amazon rainforest how many species of bird are there estimated to be?
- 11. In the Amazon rainforest how many species of insects are there estimated to be?
- 12. Complete the missing information from Fig 1 p3.



_____ - A small number of _____break through the general level of the forest, reaching heights of over _____ m

_ - Continuous, _____ tree cover protects the ground from _____ rainfall and reduces the amount of ______ to areas below

_____ - Woody _____ and shrubs grow in the ______, calm conditions with _____ sunlight.

______ - Made up of ______material broken down by the hot, _____ conditions. This level consists of scattered plants and ______ as a source of food.

- 13. What are the characteristics of
- a) rainforest soils
- b) rainforest plants
- c) rainforest animals

- 14. Sort the following into Social **(S)**, Economic **(Ec)** and Environmental **(Env)** benefits. (Don't forget social and economic are sometimes combined to become socio-economic!)
- 15. Then divide them into local (L) and global (G) effects

			The impo	ortance of tropical rainforests	
S/Ec/Env	L/G			ce, they are also important in ma al rainforests are valuable becau	
		Over 50 million	years of plant and ani	mal species evolution has create e being lost every day due to rair	d a huge diversity of species.
		They act as a gerosion and flo		a climate regulator, and also help	to reduce local risks of
		They provide a	•	ods and industrial products, inclu	ding fibres, resins, dyes and
		rubber.They are home	e to over a thousand inc	digenous tribes who depend on the	ne rainforest for their survival.
		These people	have learned to live sus	stainably within the rainforest ove	r hundreds of years.
16. Using t	the statis	tics at the bottom	of p3, explain one wa	y that rainforests are importar	nt (2 marks)
	rainforce	et plants and anim	als might be useful in	the following circumstances? (Soo ovample done for you
Problem	Tallilores	st plants and amini	Plant /animal	Which part is used?	
Heart atta	ck			·	
neart atta	ICK		Bat	Saliva (spit)	
Leukaemia	a (cancer	of the blood)			
Infection (of wound	ds, eg Gangrene)			
Parkinson	's disease	1			
Thrombos	is (Blood	clots)			
Contracep		venting			FILING
pregnancy Malaria	<u>()</u>				CONTRACEPTION
1107					
HIV					
Glaucoma	(an eye p	oroblem)			
Mental illr	ness				
Anaesthet	ic (eg du	ring tooth			
extraction					
0 1411 - 1		1.01			
	-	ik the implications death rates, quality	= -	ese drugs were no longer availa	ible?
		,			

Using Figure 2 and the graphs at the top of the page 19. Which country had the lowest positive percentage change? _____ 20. State the number of countries with a higher percentage change in annual deforestation than Guatemala 21. What is the difference in the rate of change between Peru and Nicaragua? ____ 22. Describe the trends in deforestation in both the Brazilian amazon and the non-Brazilian Amazon 23. List the 7 reasons why deforestation occurs from the bottom section(yellow) of p4 5. _____ 24. State 5 statistics about deforestation from the bottom section of p4 25. How does deforestation contribute to climate change?

26	5. How does deforestation lead to migration?
27	7. What is the Paris climate summit?
28	.Why is exploiting the forest a problem?
29	. How are they going to be able to meet this promise?
30.	How much money have they been promised? And what is it for?
Us	ing p5
31.	How much deforestation is a result of illegal activities?
32.	List the environmental problems of deforestation
33.	Why are government backed schemes better?
	

34. Complete the following table using the infographic in figure 2 page $5\,$

Country	Total forest loss 2000-2012	Causes of deforestation	% exported	% deforestation due to commercial agriculture	% illegal agriculture
Brazil					
Malaysia					
Bolivia					
Indonesia					
	longer do people in Lin	na live			
39. What are co	onditions like in remote	e, rural villages?			
Using Figur	e 3 as a whole				
	e 5 as a whole refits of road developm	ent in Peru			

41.	How will roads impact on the environment?
42.	How many million hectares of rainforest will be at risk?
43.	Which protected areas are at risk?
44.	How much land is at risk from road building?
45.	What do conservationists and local people believe?
46.	Where does most deforestation occur?
47.	How many people depend on Peru's forests for survival?

48. Highlight the positives and negatives of road building from the section of figure 3 below

Road building, the engine of progress and enabler of destruction!

Peru is one of the most forested countries in the world; only Brazil has a larger share of the Amazon rainforest. This makes Peru one of the most biodiverse countries in the world, with nearly half a million people directly depending on the forest for their survival. The development of new roads will create opportunities for trade and open up areas for industrial development and tourism, but will also add to the growing rate of deforestation as land is cleared for cattle ranching, soya plantations and mining, destroying habitats that have existed for thousands of years. Only time will tell what effects road developments will have on the rainforest and whether the negative effects can be reduced.

Roads will help to drive rural areas of Peru out of poverty

Road developments will encourage the growth of the mining industry which is seen as a major way to move people in Peru out of poverty, fulfilling a government pledge to cut poverty by 50% by 2021. Despite a decline in poverty since 2000, it was reported that in 2016 over 40% of all rural dwellers were living in extreme poverty and were unable to satisfy their basic needs. Road developments will connect rural areas and create opportunities in agriculture and mining, bringing employment to thousands of people while also increasing export earnings and giving the government the opportunity to invest in social improvements.

Road projects don't benefit indigenous people. Roads bring outsiders who exploit the land and log our timber, as well as drug traffickers and illegal miners.

The Federation of Native Amazon Peoples

We must break with the view that the Amazon is an inexhaustible larder for other countries without taking into account its inhabitants.

Pope Francis

49. Divide them into social/economic and environmental in the table below

ocial	Economic	Environmental	
	to move people out of poverty?		

51. What was the government pledge?

52. How many rural dwellers were living in poverty in 2016 _____

53. Summarise the opinions of people below



