



CONVENT OF THE HOLY INFANT JESUS SECONDARY Preliminary Examination in preparation for The General Certificate of Education Ordinary Level 2021

CANDIDATE NAME		
CLASS 4/		REGISTER NUMBER
HUMANITIES	and the second s	2272/02
Paper 2 Geography		30 August 2021
Additional Materials:	Answer Paper Insert 1 Insert 2	1 hour 40 minutes

READ THESE INSTRUCTIONS FIRST

Write your name, class and register number in the spaces provided on the work you hand in. Write in dark blue or black ink on both sides of the paper. Do not use staples, paper clips, glue, correction fluid or correction tape.

Section A

Answer one question

Section B

Answer one question

Section C

Answer one question

Begin Section A, Section B and Section C on a fresh sheet of paper.

Write all answers on the Answer Paper provided.

Candidates should support their answers with the use of relevant examples.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

Insert 1 contains Fig. 1 for Question 1 and Fig. 5 for Question 2.

Insert 2 contains Figs. 3 and 4 for Question 1, Fig. 6 for Question 3, Fig. 7 for Question 4, Fig. 8 for Question 5 and Fig. 12 for Question 6.

At the end of the examination, fasten your work for each section together.

Submit your work for Section A, Section B and Section C securely.

The number of marks is given in brackets [] at the end of each question or part question.

This document consists of 9 printed pages and 1 blank page.

Turn over

Section A

Answer one question from this section.

- A group of students visited Qingjing Farm in Central Taiwan to investigate whether the number of activities the visitors are participating in would influence the number of days they are staying at the Qingjing guest house. The students intend to conduct this investigation over two days.
 - (a) State a suitable guiding question the students could use for the investigation. [1]
 - (b) Fig. 1 (Insert 1) shows the map of Qingjing Farm.
 - (i) Identify a suitable location to conduct the investigation by marking an 'X' on Fig. 1 and justify your choice on the writing paper. [2]
 - (ii) Outline considerations the students should take to ensure the data collected is accurate and reliable. [3]

(c) Fig. 2 shows the questionnaire survey.

Questionnaire Survey for Visitors

Nar	ne:	
Age	e:	_
1.	Which	region are you from?
	000	Asia Europe North America South America Africa Oceania
2.	Is this	your first visit to Qingjing Farm?
		Yes No
3.	How m	any days are you spending in Qingjing Farm?
		1 – 2 days 3 – 4 days 5 – 6 days More than a week
4.	Which	activities are you planning to participate in during your stay at Qingjing Farm?
		Sheep-shearing show Trail Hiking Wool DIY Handicraft Workshop Veteran Museum Festival Celebrations Others:
	Total r	number of activities:

Fig. 2

Describe a method to best represent the relationship between the results for questions 3 [3] and 4 in Fig. 2

(d) The students decided to extend their investigation to find out more about the sustainable tourism practices adopted by Qingjing farm. They came up with the guiding question, "Does Qingjing farm practise sustainable tourism?". Figs. 3 & 4 (Insert 2) shows the results collected from 100 interviews with the locals.

What conclusions can the students draw from Figs. 3 & 4 to answer the guiding question? [4]

[Turn over

- 2 A group of students wanted to investigate variations in wind speed along the hiking trail of Tatra Mountain in Zakopane, Poland. The students separated into three teams and conducted the investigation at 0900, 1200 and 1500 at three locations during a day in July.
 - (a) State a suitable guiding question for this investigation. [1]
 - (b) Fig. 5 (Insert 1) shows the map of Tatra Mountain. Points A and B are two of the three locations where the students conducted the investigation.
 - (i) Identify a suitable third location where the students could have conducted the investigation by marking an 'X' on Fig. 5 and justify your choice on the writing [2] paper.
 - Outline considerations the students should take to ensure the data collected is (ii) [3] accurate and reliable.
 - The students collected the average wind speed at three locations. (c)
 - Suggest how the average wind speed at the three locations could be shown on one graph. [3]
 - The students decided to extend their investigation to find out the relationship between (d) altitude and the changes in air pressure during the day. They recorded the changes in pressure over 12 hours at each location. Table 1 shows the average readings of the measuring hand and the movable pointer at five locations of varying altitudes.

Average readings of the measuring hand and the movable pointer at locations A to E

Table 1

Location	(mb)	measuring nand (mb)	air pressure (mb)	Altitude (m)
Α	1013	1017	4	0
В	955	944	11	500
С	899	879	20	1000
D	846	813	33	1500
Ë	775	801	26	2000

Using Table 1, identify a weather instrument the students could use for this investigation and suggest what conclusions may be drawn from this data. [4]

Section B

Answer one question from this section

3 (a) Study Fig. 6 (Insert 2), which shows the general distribution of rainfall (mm) in the Indian Subcontinent from May to October.

With reference to Fig. 6, describe the general distribution of rainfall (mm) in the Indian Subcontinent from May to October.

[4]

(b) "Climate change only brings about socio-economic risks."

How far do you agree? Give examples to support your answer.

[8]

4 (a) Study Fig. 7 (Insert 2), which shows the location of Amsterdam and Warsaw, two cities in the Netherlands and Poland respectively, and Table 2, which shows some information of the two European cities.

Table 2

Cities	Amsterdam	Warsaw
Latitude	53.3 ° N	53.2 ° N
Annual temperature	9°C	23°C
range		

Using information from Fig. 7 and Table 2, account for the difference in annual temperature range of Amsterdam and Warsaw.

[4]

(b) "The conservation of environments through ecotourism is significant in mitigating the negative impacts that tourism brings."

How far do you agree? Give examples to support your answer.

[8]

Section C

Answer one question from this section.

- 5 (a) Study Fig. 8 (Insert 2), which shows the distribution and extent of hazards associated with Nevado del Ruiz, a volcano located in Colombia.
 - Describe the distribution and extent of hazards associated with Nevado del Ruiz. [4]
 - (b) With the aid of a well-labelled diagram, explain the processes that occur at an oceanic-continental convergent boundary. [5]
 - (c) Study Fig. 9, which shows Town X before and after a volcanic eruption.

Town X before and after a volcanic eruption

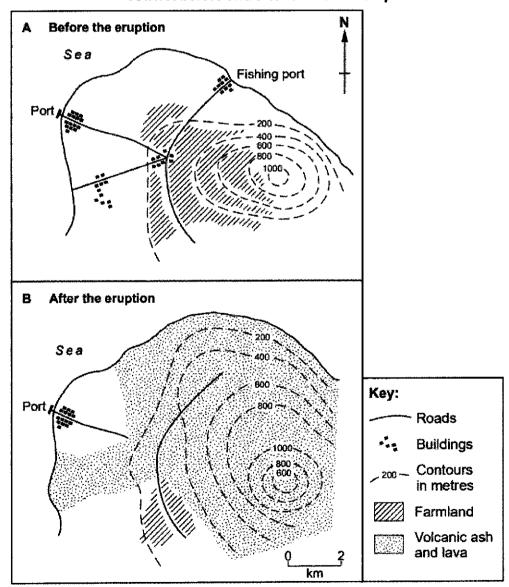


Fig. 9

Using evidence from Fig. 9, outline the impacts of the volcanic eruption on Town X.

(d) Study Fig. 10, which shows the condition of a river before and after the excessive use of chemical fertilisers to intensify food production in its surrounding areas.

Condition of a river before and after the intensification of food production Excessive Sunlight Minimal Sunlight Nutrient Inputs Nutrient inputs Algal Bloom **Balanced** Reduced Algae Growth rasses Bay Grasse **Before** <u>After</u> Intensification ntensification lgae Die-off Aldae Decomposition Adequate No. Low Oxygen Oxygen,

Fig. 10

With reference to Fig. 10, account for the differences in river condition before and after the intensification of food production in its surrounding area.

[4]

(e) 'Intensification of food production in countries is heavily affected by physical factors.'

To what extent is this statement true? Give reasons to support your answer.

[8]

Study Fig. 11, which shows the location of meat processing factories in the North and 6 (a) South Islands of New Zealand.

Location of meat processing factories in New Zealand

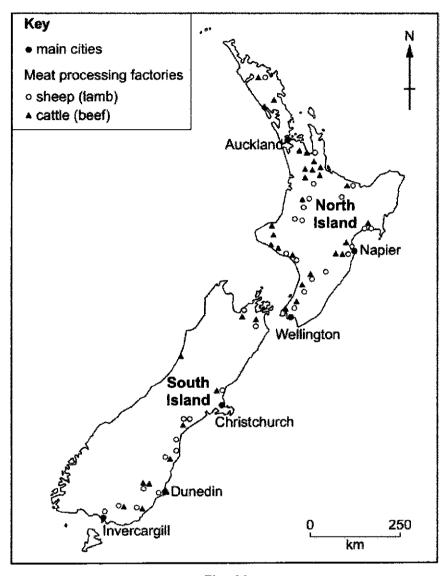


Fig. 11

Using Fig. 11, describe the differences in the distribution of meat processing factories in the North and South Islands of New Zealand. [3]

- Study Fig. 12 (Insert 2), which shows the maize yield for selected countries between (b) 1961 and 2017.
 - Using information from Fig. 12, account for the differences in maize production between [4] the countries.
- With the aid of example(s), suggest how the Green Revolution has benefitted (c) [5] agribusinesses.

(d) Study Fig. 13, which shows the different impacts of excess food consumption.

Impacts of excess food consumption

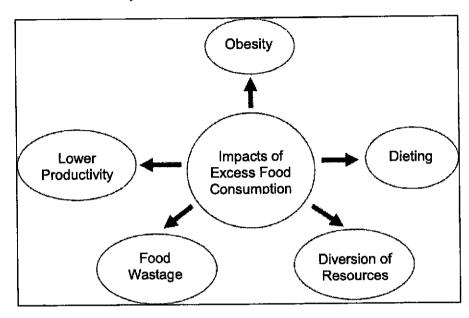


Fig. 13

With the help of Fig. 13, outline the impacts of excess food consumption on countries. [4]

nt of a

(e) 'Food consumption patterns are primarily determined by the level of development of a country'.

To what extent is this statement true? Give reasons to support your answer.

[8]

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Acknowledgements:	·····
Question 1 Fig. 1	© https://www.cingjing.gov.tw/en/about/
Question 2 Fig. 5	© https://weepingredorger.files.wordpress.com/2013/12/dsc05055-61.jpg
Question 3 Fig. 6	© https://www.pmfias.com/south-west-monsoon-season-south-west-monsoons-arabian-sea-
•	branch-bay-of-bengal-branch/
Question 4 Fig. 7	© Google Earth
Table 3	https://www.climatestotravei.com/climate/netherlands/amsterdam
	© https://www.climatestotravel.com/climate/poland/warsaw
Question 5 Fig. 8	https://www.researchgate.net/figure/Flood-caused-by-a-volcanic-eruption-Nevado-del-
	Ruiz-Colombia-1985 fig11 313428924
Fig. 9	© Cambridge IGCSE 0460/02 May/June 2005
Fig. 10	© https://www.pinterest.com/pin/506655026813152369/?d=t&mt=login
Question 6 Fig. 11	© Cambridge IGCSE 0976/01 Specimen Paper
Fig. 12	© https://www.economist.com/middle-east-and-africa/2019/09/28/better-seeds-could-help-
	african-farmers-grow-far-more

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CANDIDATI NAME		Education Ordinary Level 2021
CLASS	4/	REGISTER NUMBER
HUMAN	ITIES	2272/02
Paper 2 Geo	ography	30 August 2021
INSERT 1		1 hour 40 minutes

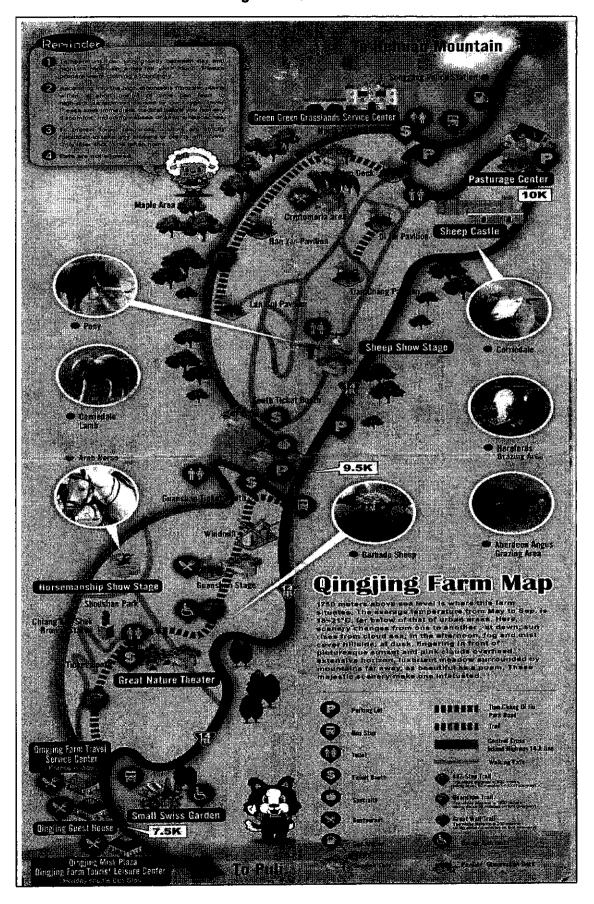
READ THESE INSTRUCTIONS FIRST

This insert contains Fig. 1 for Question 1 and Fig. 5 for Question 2

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[Turn over

Fig. 1 for Question 1



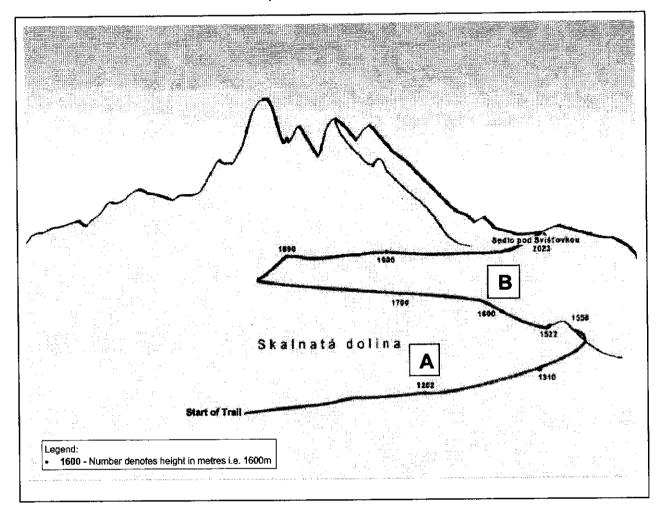
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Fig. 5 for Question 2

Map of Tatra Mountain



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CANDIDATE NAME		
CLASS	4/	REGISTER NUMBER
HUMANIT	ÎIES	2272/02
Paper 2 Geogr	raphy	30 August 2021
INSERT 2		1 hour 40 minutes
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READ THESE INSTRUCTIONS FIRST

This insert contains Figs. 3 and 4 for Question 1, Fig. 6 for Question 3, Fig. 7 for Question 4, Fig. 8 for Question 5 and Fig. 12 for Question 6.

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[Turn over

Fig. 3 for Question 1

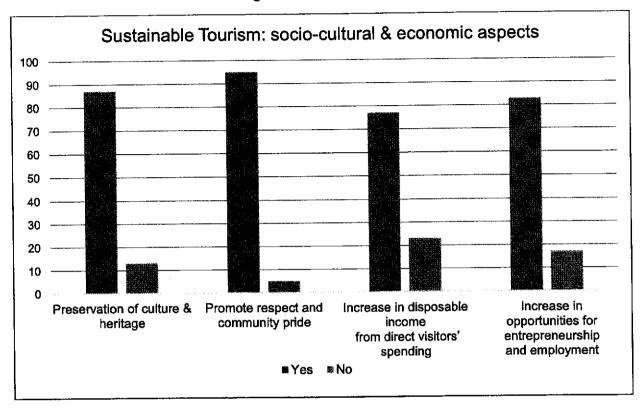
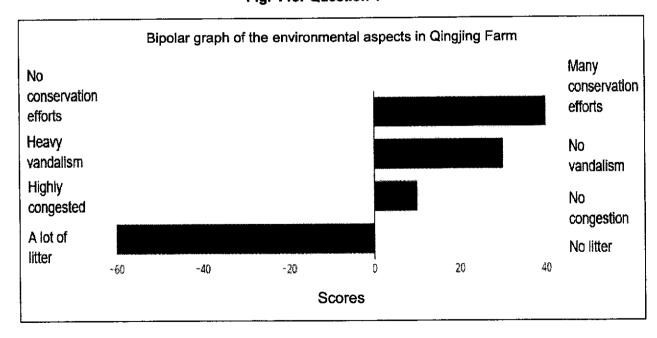


Fig. 4 for Question 1

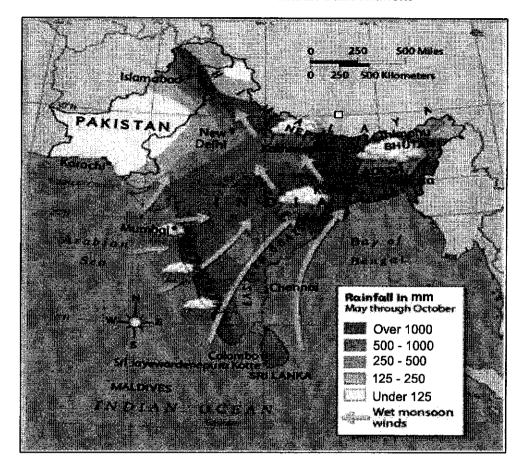


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Fig. 6 for Question 3

Distribution of rainfall in Indian Subcontinent



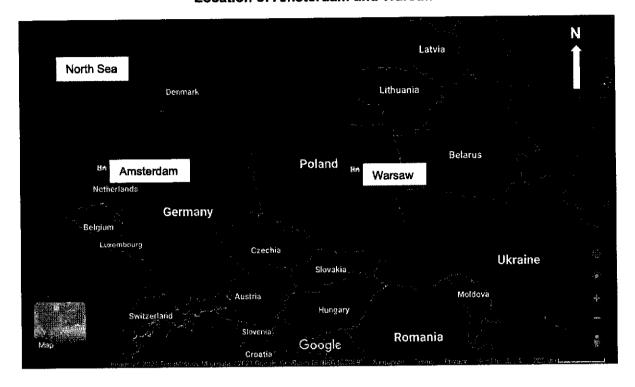
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Fig. 7 for Question 4

Location of Amsterdam and Warsaw

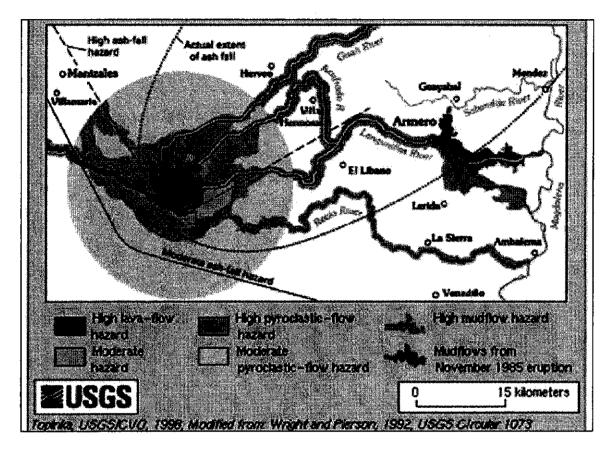


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Fig. 8 for Question 5

Distribution and extent of hazards associated with Nevaldo del Ruiz

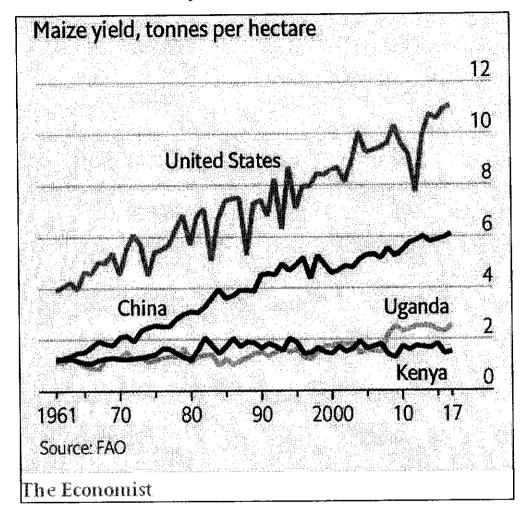


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Fig. 12 for Question 6

Maize yield between 1961 and 2017



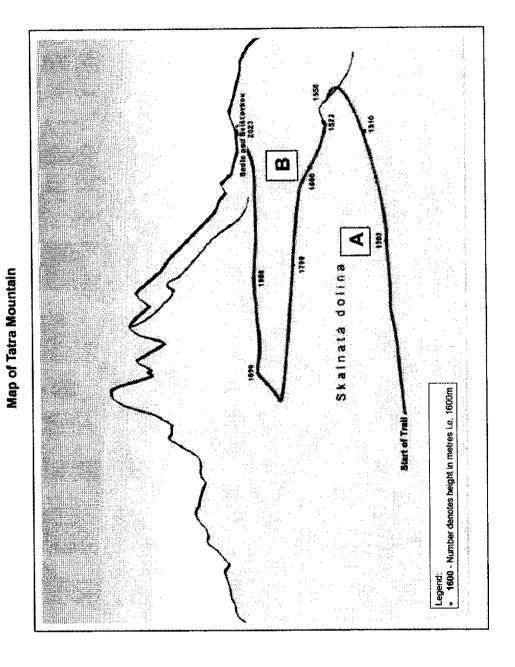
CHIJSec/2021/Prelims/4E/2272/Insert2

Poland. The students separated into three teams and conducted (2) A group of students wanted to investigate variations in wind the investigation at 0900, 1200 and 1500 at three locations speed along the hiking trail of Tatra Mountain in Zakopane during a day in July.

State a suitable guiding question for this investigation. [1]
Does the wind speed change along the hiking trail of Tatra Mountain?
Does the height of the mountain influence wind speed?

Does the wind speed increases with increasing altitude?

(b) Fig. 5 (Insert 1) shows the map of Tatra Mountain. Points A and B are two of the three locations where the students conducted the investigation.



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have conducted the investigation by marking an 'X' on Fig. 5 (i) Identify a suitable third location where the students could and justify your choice on the writing paper. [2]

_	Any point above Point B (I.e. above 1600m)/ any point in
	between Point A and B (i.e. between 1202m and 1600m)
_earnin at www.te	80
g estpapersfi	Any point below Point A (i.e. below 1202m)
on ee.com	Justification: Students will be able to investigate if the wind
	speed differs at three different altitudes.

BP~147

(ii) Outline considerations the students should take to ensure the data collected is accurate and reliable. [3]

A balanced answer must include both aspects.

Accuracy – max 2m

ers at ww	They should ensure that the anemometers used have the
v 4 ∮stpape	same usage functions.
ersfree.cor	They should ensure that they hold the anemometer above
m	the head to prevent any blockage of wind.
Z	They should read the measurement at eye level to prevent
	parallax error.
Z Z	Check weather forecast for heavy storm as it may cause
	strong wind that may increase the wind speed.

(ii) Outline considerations the students should take to ensure the data collected is accurate and reliable. [3]

Reliability - max 2m

More no	1M They should cross check the data collected with the data
aners at w	from the meteorological observatory stations in Zakopane.
A Ritastna	1M They should decide on the number of times they are
nerstree c	repeating the investigation in that particular duration to get
oom.	the average data.

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BP~149

(c) The students collected the average wind speed at three locations. Suggest how the average wind speed at the three locations could be shown on one graph. [3]

Data representation

More pape	Comparative line graph/ Comparative bar graph/ Simple bar
ers at www	graph
∕43 tpape	Description for comparative line graph:
rsfree.com	Name the graph with a title such as 'Comparative line graph
	label the x-axis as time (0900, 1200, 1500) and the y-axis
	as average wind speed (m/s)
2	The line graph of each location are differentiated using
	different colours/patterns indicated in a legend

locations. Suggest how the average wind speed at the three (c) The students collected the average wind speed at three locations could be shown on one graph. [3]

OR

More p	Description for comparative bar graph:
apers at W	Name the graph with a title such as 'Comparative bar graph
	of average wind speed collected at three locations' and
apersfree.	label the x-axis as location (Location A, Location B,
com	Location C) and the y-axis as average wind speed (m/s)
18	1M The bar graph of each time are differentiated using different
	colours/patterns indicated in a legend.

BP~151

locations. Suggest how the average wind speed at the three (c) The students collected the average wind speed at three locations could be shown on one graph. [3]

OR

More pa	Description for simple bar graph
pers at www	Name the graph with a title such as 'Simple bar graph of
∕g∢ stpape	average wind speed collected at three locations' and label
ersfree.co	the x-axis as location (Location A, Location B, Location C)
om	and the y-axis as average wind speed (m/s)
7	The wind speed of the 3 different timings were added and
	divided by 3 to achieve the average wind speed of the
	specific location

12 hours at each location. Table 1 shows the average readings of he relationship between altitude and the changes in air pressure the measuring hand and the movable pointer at five locations of (d) The students decided to extend their investigation to find out during the day. They recorded the changes in pressure over

ocations A to E	Altitude (m)	0	200	1000	1500	2000
able pointer at l	Difference in air pressure (mb)	4	****	50	33	56
ing hand and the movable pointer at locations A to E	Measuring hand (mb)	1017	944	879	813	801
the measur	vable pointe (mb)	1013	955	668	846	775
More babes at Mysters of Average readings of	Location	A	æ	ပ	Ω	Ш
More papers at w. 452 es	stpapersfree.com	<u>ļ</u>	:	<u>.</u>		<u>1</u>

use for this investigation and suggest what conclusions may be Using Table 1, identify a weather instrument the students could drawn from this data. [4]

Σ	1M Barometer
More pa	Conclusion: Difference in air pressure increases as altitude
apers at w	increases (positive relationship)
w y g stpa	As the altitude increased from 0m to 2000m, the difference
persfree.c	in air pressure also increased from 4mb to 26mb
2	However, there is a dip in the air pressure difference from
	33mb to 26mb as altitude increased from 1500m to 2000m.

3(a) Study Fig. 6 (Insert 2), which shows the general distribution of rainfall (mm) in the Indian Subcontinent from May to October.

Over 1000 500 - 1000 250 - 500 Under 125 125 - 250

Distribution of rainfall in Indian Subcontinent

rainfall (mm) in the Indian Subcontinent from May to October. [4] With reference to Fig. 6, describe the general distribution of

Both aspects must be included.

General description (max 2m)

monary with the wet monaron winds
I EGIOLIS AIOLIS WILL HIG WOLLHOUSSON WILLS

BP~156

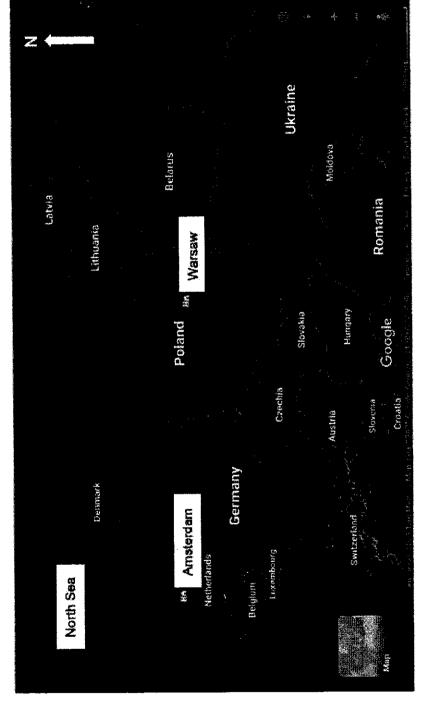
rainfall (mm) in the Indian Subcontinent from May to October. [4] With reference to Fig. 6, describe the general distribution of

Specific description (max 2m)

More pap	Countries such as Bangladesh, Bhutan, Sri Lanka, Nepal
pers at v	and majority of India and the region of the Western Ghats
	receive the highest amount of rainfall of above 1000mm
pex con	Majority of Pakistan receive very low rainfall of under
	125mm
Z	The northwest of India receive moderate amount of rainfall
	of 125mm – 500mm
¥	The northeast of Pakistan receive moderate to high amou
	of rainfall of above 125mm

Poland respectively, and Table 2, which shows some information Amsterdam and Warsaw, two cities in the Netherlands and 4(a) Study Fig. 7 (Insert 2), which shows the location of of the two European cities.

Location of Amsterdam and Warsaw



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Poland respectively, and Table 2, which shows some information 4(a) Study Fig. 7 (Insert 2), which shows the location of Amsterdam and Warsaw, two cities in the Netherlands and of the two European cities.

Table 2	Cities Amsterdam	Latitude 53.3 ° N	Annual temperature 9°C range
	Warsaw	53.2 ° N	23°C

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difference in annual temperature range of Amsterdam and Using information from Fig. 7 and Table 2, account for the Warsaw. [4] Amsterdam located at close proximity to the North Sea will during summer and warmed up by the water during winter experience the maritime effect as it is cooled by the water resulting in lower temperature and higher temperature ****

compared to land hence water gains heat and loses heat This is because water has higher specific heat capacity slower than land

Respectively

Using information from Fig. 7 and Table 2, account for the difference in annual temperature range of Amsterdam and Warsaw. [4]

1 <u>M</u>	Warsaw located further inland will experience the
More p	continental effect resulting in higher temperature during
apers at v	summer and lower temperature during winter
√60 .testpa	Hence, Amsterdam experiences a smaller annual
persfree.	temperature range of 9°C while Warsaw experiences a
com	larger annual temperature range of 23°C

extent of hazards associated with Nevado del Ruiz, a volcano 5(a) Study Fig. 8 (Insert 2), which shows the distribution and located in Colombia.

Worman (1985) was to (S kitometers | 1975年 | 1977年 | 19 Distribution and extent of hazards associated with Nevaldo del Ruiz Hosteral ZUSES

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<u>Describe</u> the <u>distribution</u> and extent of <u>hazards</u> associated with Nevado del Ruiz. [4]

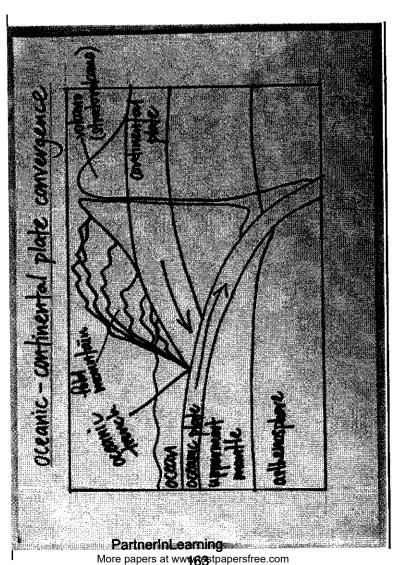
Any 4 points

ore paper	High mudflow hazard is associated with the areas northeast,
	east and southeast of Nevado del Ruiz
testpapers	where it spread to 40.9km, 56.8km and 58.2km respectively
ree.com	Mudflows from the November 1985 eruption is also associate
	with areas northwest of Nevado del Ruiz
7	where it spreads to 24.5km
7	High lava flow hazard is concentrated around Nevado del
	Ruiz, where it does not spread beyond 6.4km

(b) With the aid of a well-labelled diagram, explain the processes that occur at an oceanic-continental convergent boundary. [5]

Key labels in the diagram

- Oceanic crust, continenta crust, direction of movement, movement of mantle material in the asthenosphere
- Folding, subduction, formation of volcanoes



(b) With the aid of a well-labelled diagram, explain the processes that occur at an oceanic-continental convergent boundary. [5]

Explanation

the plates to move towards the plates to move towards the plate to move towards the plate will subduct under the subducted plate deeper into and pressure, forming magnetic that of the subducted plate and pressure, forming magnetic that the plate deeper into and pressure, forming magnetic that the plate and pressure and plate and	so the order of the order	
1M Compressional force in plate will subduct und Slab-pull force drives to subducted plate deeper and pressure, forming	the plates to move towards each other	vection cens caus
Slab-pull force drives the subducted plate deeper and pressure, forming and pressure, forming	ompressional force is generated and the denser oceanic	e denser oceanic
Slab-pull force drives the subducted plate deeper and pressure, forming and pressure, forming	ate will subduct under the less dense continental plate	continental plate
subducted plate deeper 1M Part of the subducted and pressure, forming	Slab-pull force drives the downward movement of the	ement of the
Part of the subducted and pressure, forming	subducted plate deeper into the asthenosphere.	here.
and pressure, forming mag	art of the subducted plate melts due to immense heat	immense heat
	nd pressure, forming magma which rises through	es through
fractures on the earth's sur	fractures on the earth's surface to form volcanoes.	lcanoes.

(b) With the aid of a well-labelled diagram, explain the processes that occur at an oceanic-continental convergent boundary. [5]

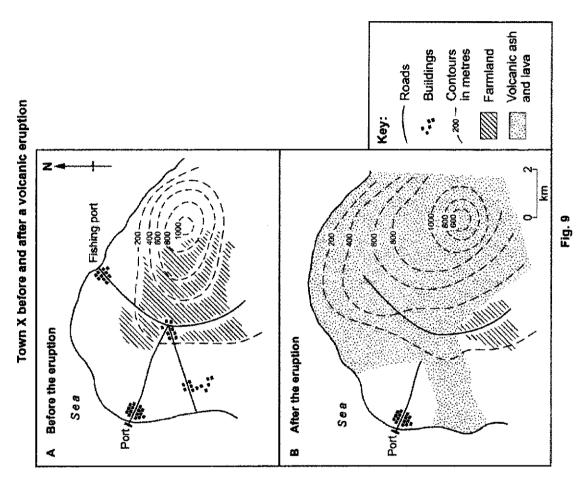
Explanation

\S

Compressional force generated at the boundary also cause layers of rocks on the continental plate to buckle and fold upwards and sideways, resulting in the process of folding.

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5(c) Study Fig. 9, which shows Town X before and after a volcanic eruption.



Using evidence from Fig. 9, outline the impacts of the volcanic eruption on Town X. [4]

2	The volcanic eruption would result in a large number of
Мо	deaths, as the volcanic ash and hot lava had engulfed
re papers	three settlements in the area
at ww ng	Those who survived may suffer respiratory illnesses after
stpapers	breathing in the ash particles, as the volcanic ash and ho
free.com	lava had engulfed three settlements in the area
7	The volcanic eruption resulted in food shortages in the area
	as the hot lava had destroyed a large area of farmland on
	the western side of the volcano

Using evidence from Fig. 9, outline the impacts of the volcanic eruption on Town X. [4]

1

and the death of aquatic life, as the ash and lava flow had The volcanic eruption could have resulted in water pollution reached all the way till the edge of the island on the northern and eastern side of the volcano

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6(d) Study Fig. 13, which shows the different impacts of excess food consumption.

Impacts of excess food consumption

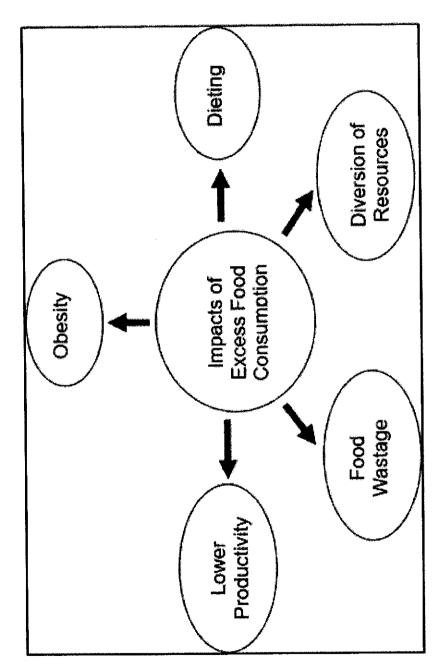


Fig. 13

With the help of Fig. 13, outline the impacts of excess food consumption on countries. [4]

Any 2 impacts with explanation.

lore paper	Excess food consumption can lead to obesity, which is a
s at wW	condition in which the body has excessive fat accumulation
) testpape	due to over-consumption of nutrients, to the extent that it
rsfree.col	may have a negative impact on health.
\S	This might lead to people falling sick more frequently due
	problems like high blood pressure, diabetes and coronary
	heart disease, lowering their work productivity which in tur
	would decrease the rate of economic growth of a country

With the help of Fig. 13, outline the impacts of excess food consumption on countries. [4]

7	Excess food consumption might lead to food wastage, as
More	producers and consumers throw away food that is still
papers at	<u>edible</u>
www/v/testr	This would result in the generation of additional waste that
oapersfre	must be disposed of, which puts a strain on a country's
e.com	landfills

With the help of Fig. 13, outline the impacts of excess food consumption on countries. [4]

2	Excess food consumption can lead to countries having to
Moi	divert financial resources to healthcare to treat obesity-
e papers	related health conditions which are more chronic in nature
at 4772 .tes	This would result in less resources available to develop
stpapersfr	other sectors of the economy and with time would
ee.com	contribute to the overall decline of a country's progress