GCE A LEVEL

S24-1110U30-1

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MONDAY, 3 JUNE 2024 – MORNING

GEOGRAPHY – A2 unit 3
Global Systems and Global Governance

2 hours

1110U301
01

ADDITIONAL MATERIALS

A WJEC pink 16-page answer booklet.
A calculator.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your answers in the separate answer booklet provided, following the instructions on the front of the answer booklet.

Answer questions 1 **and** 2 and **either** 3 **or** 4 in Section A.

Answer questions 5 **and** 6 and **either** 7 **or** 8 in Section B.

Answer **one** question in Section C.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [ ] at the end of each question or part-question; you are advised to divide your time accordingly.

This paper requires that you make as full use as possible of appropriate examples and reference to data to support your answers. Sketch maps and diagrams should be included where relevant.

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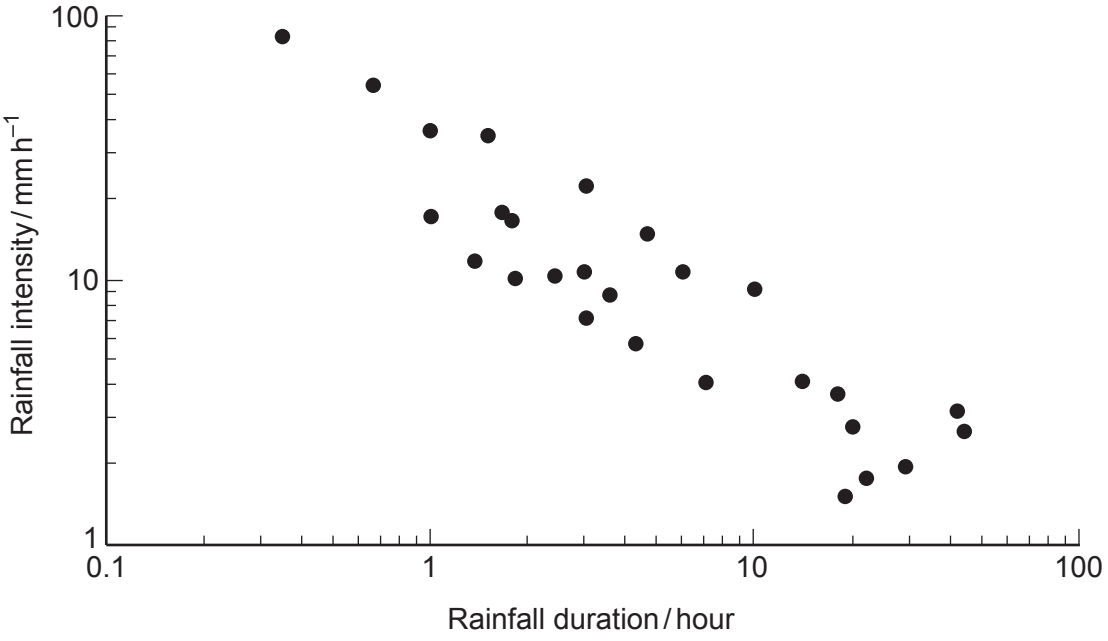
Section A: Global Systems

Answer questions 1 **and** 2 and **either** 3 **or** 4.

Make the fullest possible use of examples in support of your answers.

Figure 1: The relationship between rainfall intensity and duration for a selected river catchment



1. (a) Outline how Spearman's Rank Correlation Coefficient could be used to further analyse the relationship shown in **Figure 1**. [3]

(b) Explain how antecedent rainfall may influence the shape of a storm hydrograph. [4]

Figure 2: Pumlumon peat restoration project, Powys

Source: https://www.iucn-uk-peatlandprogramme.org

2. (a) Explain the role of **two** stores within the drainage basin system. [5]

(b) Suggest **two** reasons why peatlands such as those shown in **Figure 2** need to be managed. [5]

Either

3. Examine how water transfers between land, ocean, atmosphere and cryosphere vary over different timescales. [18]

Or

4. Examine the impacts of recent increases in the atmospheric carbon store on the water cycle and oceans. [18]

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Section B: Global Governance: Change and Challenges

Answer questions 5 **and** 6, and **either** 7 **or** 8.

Make the fullest possible use of examples in support of your answers.

5. (a) Describe how flows of technology influence the growth of globalisation. [4]

(b) Outline the role of colonial links as a recent driver of migration. [5]

Figure 3: The top ten largest container ship fleets (based on number of ships) and their country of origin, 2022

Rank	Company	Number of ships	Country of origin
1.	Maersk	718	Denmark
2.	MSC	606	Switzerland
3.	CMA CGM	542	France
4.	Cosco	497	China
5.	Hapag Lloyd	259	Germany
6.	ONE	218	Japan
7.	Evergreen	201	Taiwan
8.	Wan Hai	146	Taiwan
9.	Yang Ming	87	Taiwan
10.	HMM	79	South Korea
		Total = 3353	

Source: https://www.visualcapitalist.com/worlds-largest-container-shipping-companies-2022/

6. (a) Use **Figure 3** to calculate the percentage of ships that originate in Taiwan. [3]

(b) Suggest why supranational institutions (such as the UN and NATO) are important for the governance of the Earth's oceans. [5]

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Either

7. Examine the relative importance of economic injustice as a cause of recent refugee movements. [18]

Or

8. Assess the extent to which the distribution and ownership of major ocean resources benefits some states but not others. [18]

Section C: 21st Century Challenges

Answer **either** question 9 **or** question 10.

In your answer to either question 9 **or** 10, you should use the resources in **Figures 4, 5, 6** and **7** and apply your knowledge and understanding from across the whole specification.

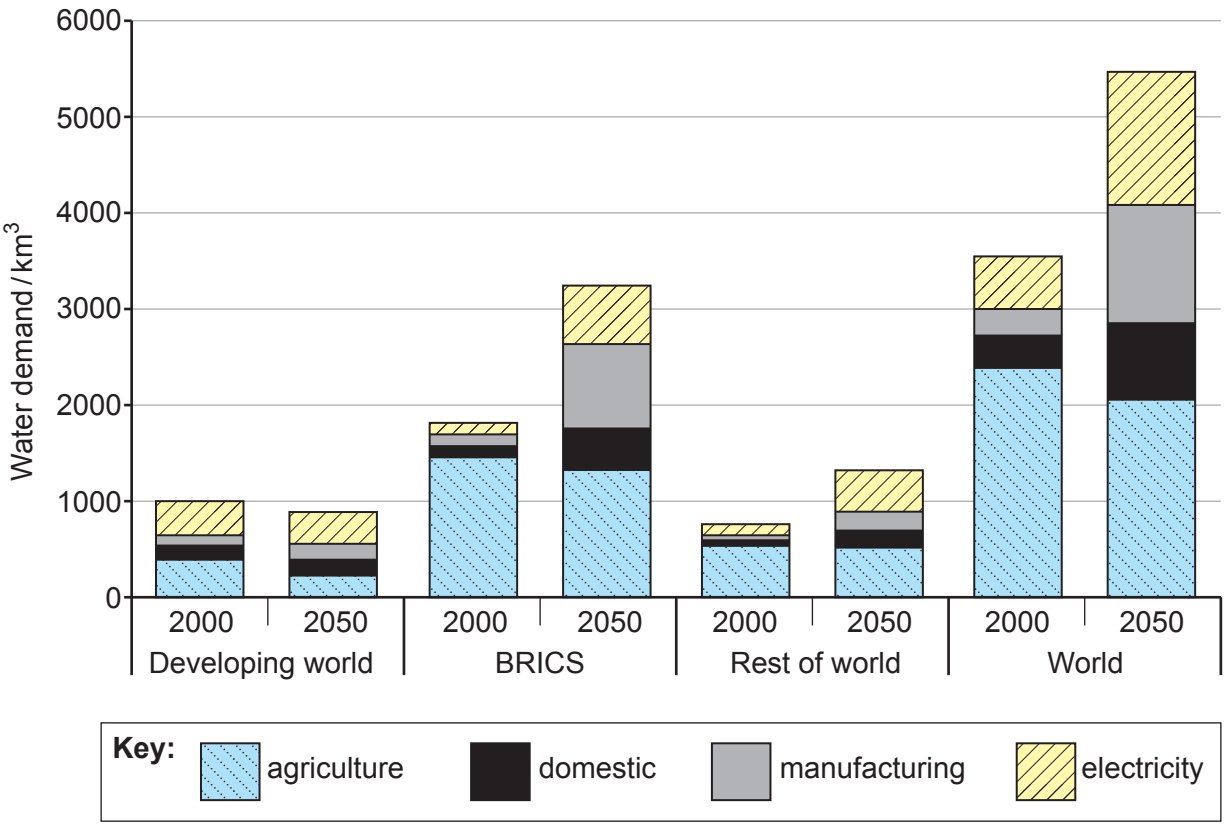
Either

9. The main risks to our planet are caused by people. Discuss. [26]

Or

10. To what extent can the increasing risks to our planet be managed in different places? [26]

Figure 4: Global water demand in 2000 and 2050 (projected)



Source: https://www.researchgate.net

Figure 5: Houses engulfed by lava, Kapoho, Hawaii, June 2018

Source: https://www.3blmedia.com/News/Resilience-Face-Global-Warming

Figure 6: Managed Aquifer Recharge in Bangladesh

MAR (Managed Aquifer Recharge) captures excess rainwater during the monsoon season and infiltrates it through wells into underground aquifers. The precious freshwater is safely stored underground and can be pumped up again whenever it is needed.

Source: https://en.acaciawater.com

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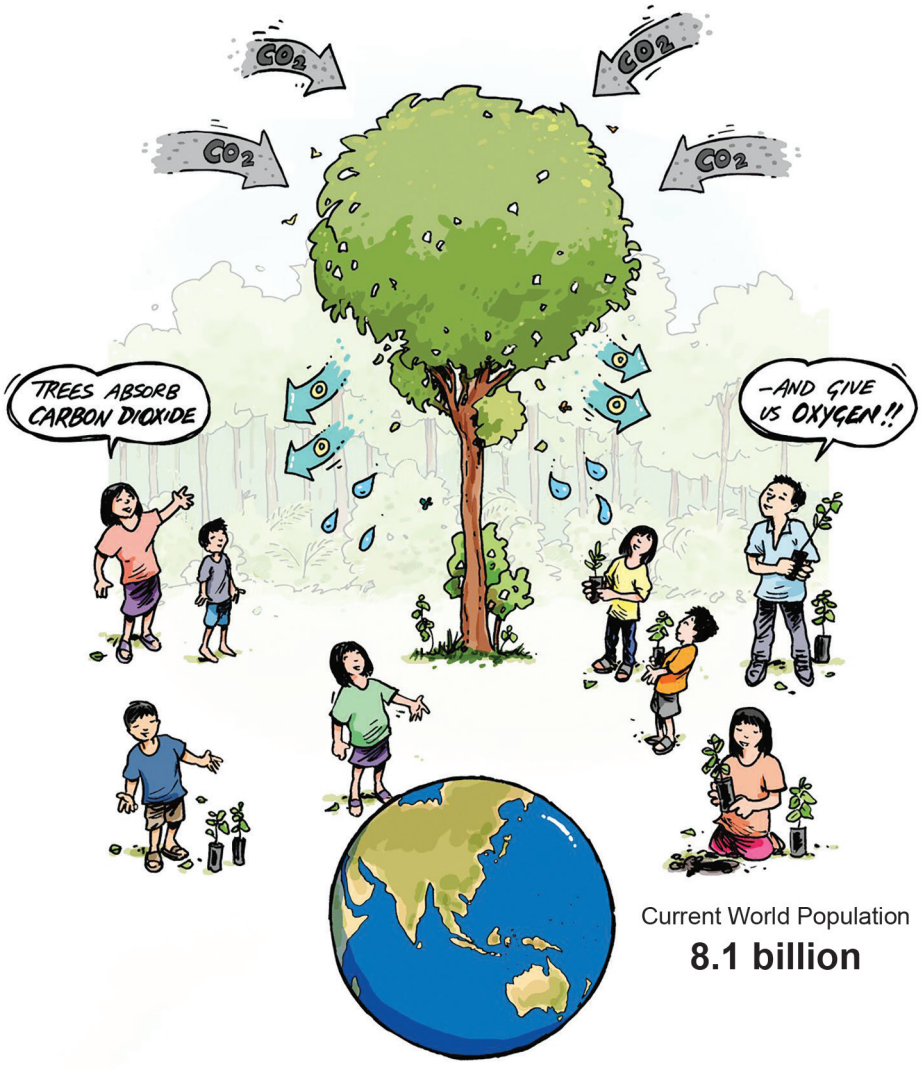
Turn over for Figure 7.

Figure 7: The importance of tree planting



Source: https://i.pinimg.com

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