



L-Università
ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL
2024 MAIN SESSION**

SUBJECT:	Geography
PAPER NUMBER:	I
DATE:	13 th May 2024
TIME:	9:00 a.m. to 11:05 a.m.

Answer **ALL** questions.

1. Examine Figure 1, the map extract on page 2 and answer the following questions. The map scale is of 1:25,000. The map's key/legend is given on page 3. The map contours are in metres.

a) In which grid square is Ta' Qali Stadium located? _____ (1)

b) Give the six-figure grid reference of **ONE** site of antiquity shown on the map.

(2)

c) Give the compass direction of Ta' Qali Stadium from L-Imdina. _____ (2)

d) Estimate the length of the road between the roundabouts at points **A** and **B**. Give your answer in kilometres.

(3)

e) Using the contour lines in Figure 1 and the key of the map on page 3, describe using evidence from the map:

i) the site of the settlement L-Imtarfa;

(4)

ii) the topography in the Ta` Qali area.

(4)

(Total: 16 marks)

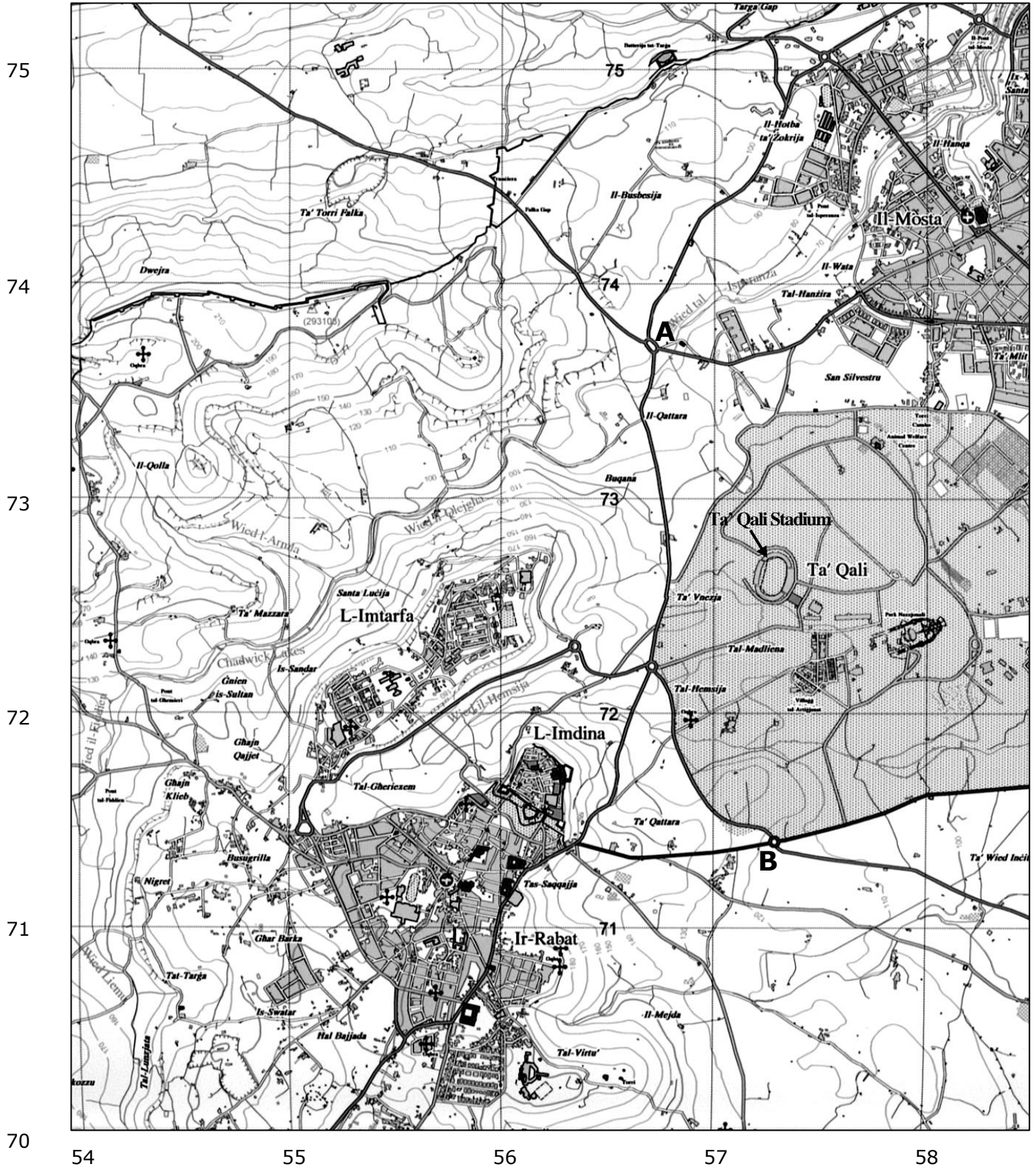
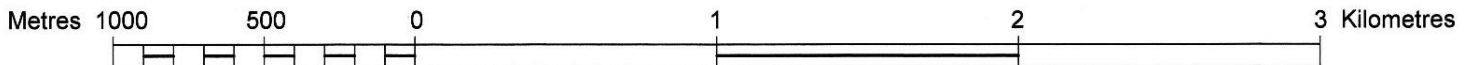
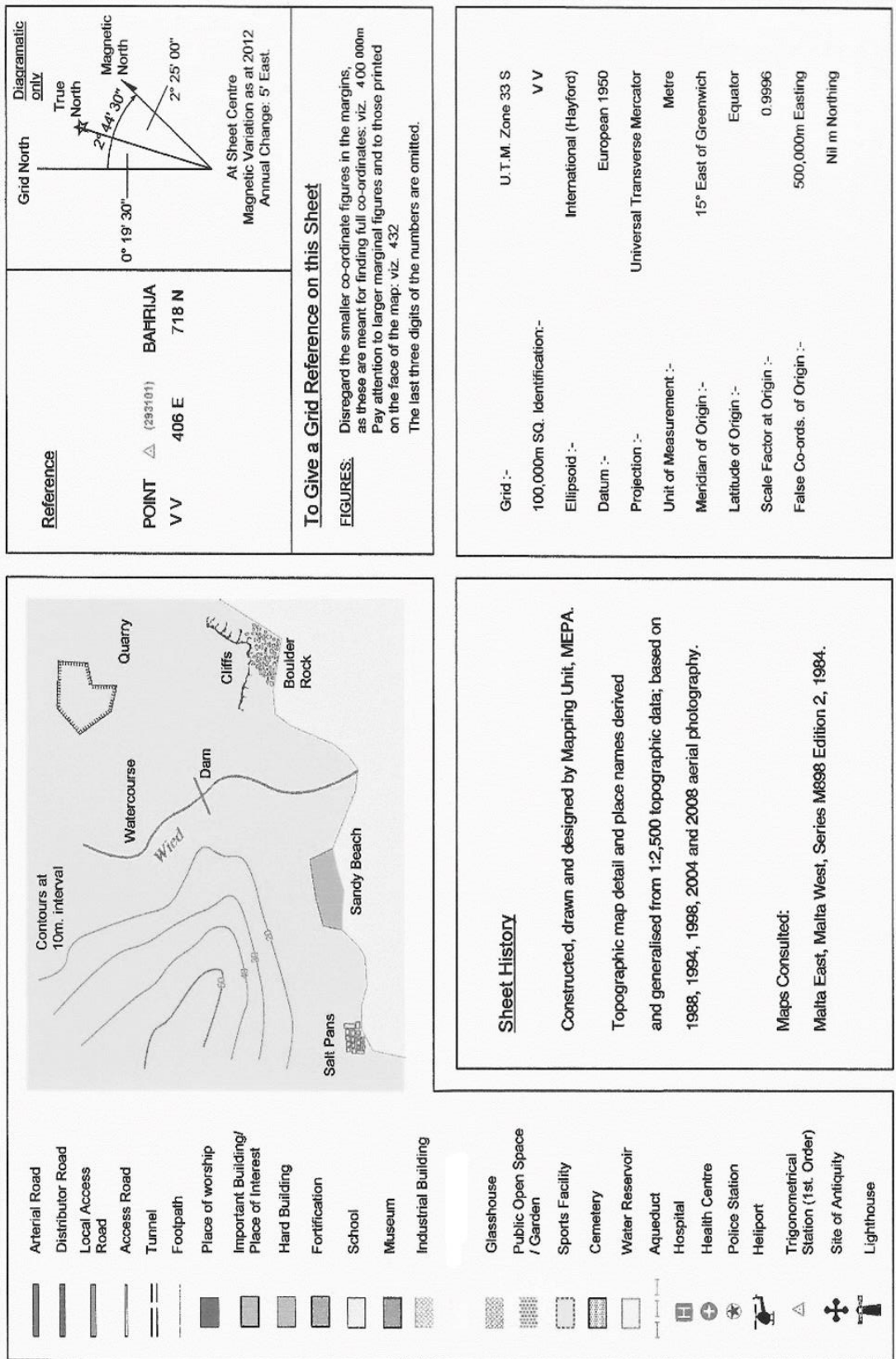


Figure 1: Map extract of the Rabat and L-Imdina area.
(Source: Planning Authority 25A/2018/M edition.)



SCALE 1 : 25,000



Key/Legend to Figure 1: Map extract for the Rabat and L-Imdina area. (Source: Planning Authority 25A/2018/M edition.)

Please turn the page.

2. Use the world map in Figure 2 below to answer the following questions.

a) Name the tectonic plates marked numbered **1** to **4**.

1	
3	

2	
4	

(4)

b) Name the fold mountains found in the regions numbered **5** to **8**.

5	
7	

6	
8	

(4)

c) Write the number corresponding to the location of these volcanoes (choosing from **9** to **11**).

	Mauna Loa
--	-----------

	Mt. Pinatubo
--	--------------

	Mt Cotopaxi
--	-------------

(3)

d) Name the seas marked **12** to **14**.

12	
----	--

13	
----	--

14	
----	--

(3)

e) Name the countries numbered **15** and **16**.

15	
----	--

16	
----	--

(2)

(Total: 16 marks)

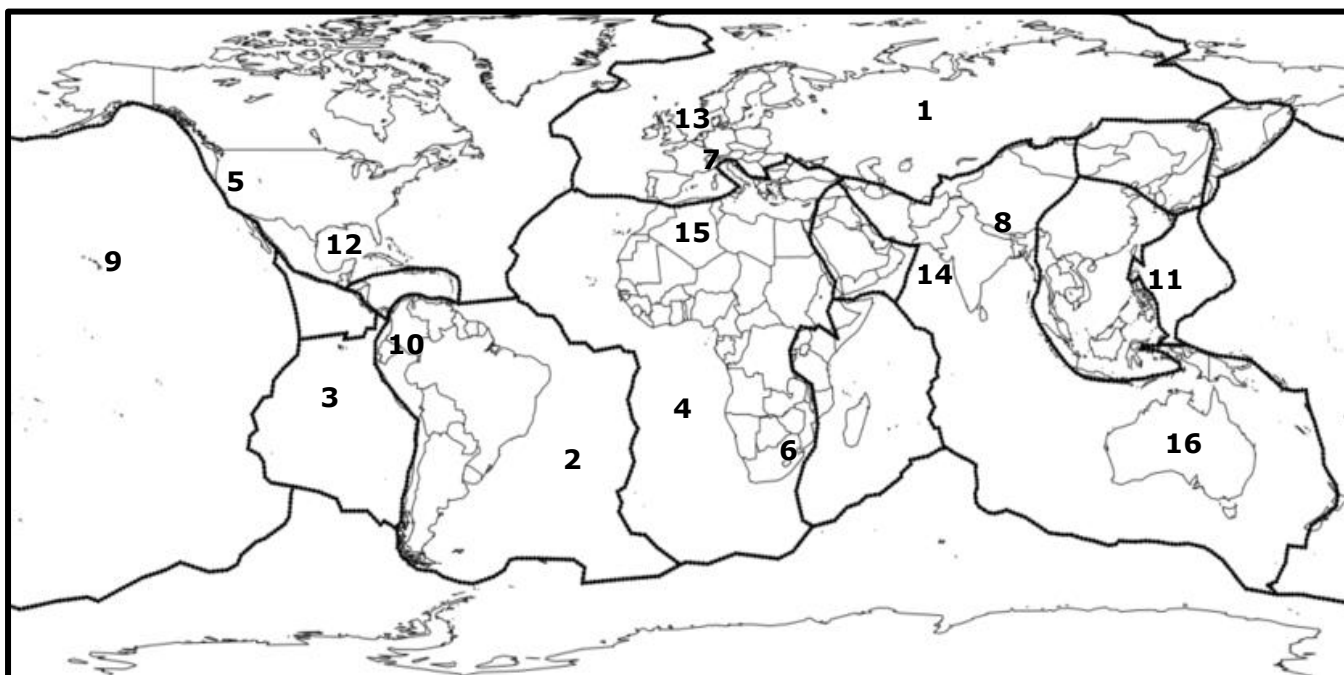


Figure 2: Map of the World.
 (Source: Adapted from <https://researchgate.net>)

3. Use Figure 3 to answer these questions.

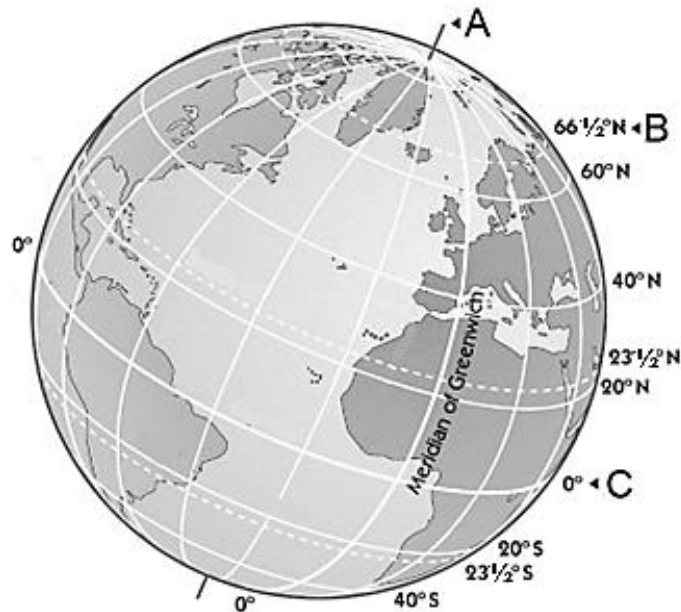


Figure 3: Globe with lines of latitude and longitude.
(Source: Adapted from <https://www.geographyalltheway.com>)

a) Name the lines of latitude marked with the letters A, B and C.

- A: _____ (1)
- B: _____ (1)
- C: _____ (1)

b) Why are all lines of longitude equal?

_____ (2)

c) The Earth makes one complete rotation in twenty-four hours. How many degrees of longitude does Earth turn in one hour?

_____ (1)

(Total: 6 marks)

Please turn the page.

4. a) What is a soil profile?

(1)

b) Briefly describe the position and characteristics of **EITHER** A horizon **OR** B horizon of a typical soil profile.

(2)

c) Briefly explain the difference between leaching and capillary action.

(3)

(Total: 6 marks)

5. Figure 4 shows four coastal features created by deposition.

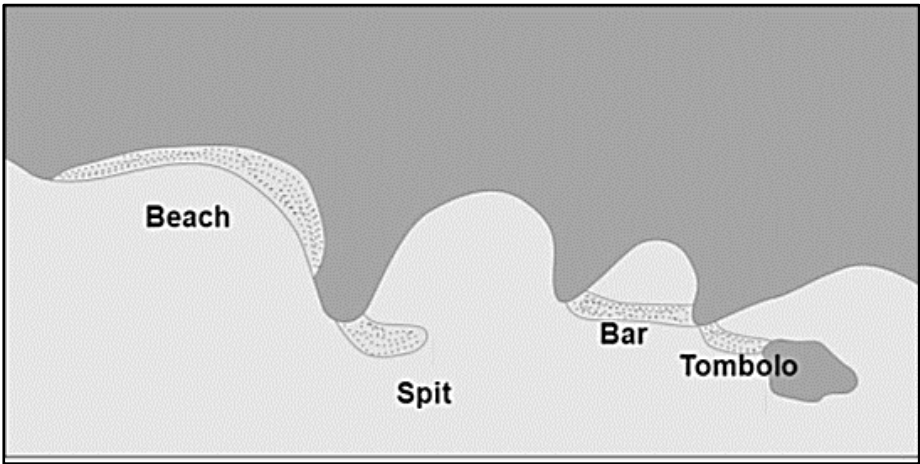


Figure 4. Coastal features formed by deposition.
(Source: <https://officersiasacademy.blogspot.com>)

a) What main transport process is responsible for the formation of the features in Figure 4?

(2)

b) Briefly describe how **TWO** of the coastal features shown in Figure 4 are formed.

(4)

(Total: 6 marks)

6. a) What is a glacier?

(2)

b) Briefly describe the process of abrasion in glacial areas.

(2)

c) List **TWO** types of land uses in glacial areas.

(2)

(Total: 6 marks)

7. a) Give the meaning of push and pull factors of migration.

(4)

b) Give **ONE** example of a push factor and **ONE** example of a pull factor.

(2)

(Total: 6 marks)

Please turn the page.

8. a) List **THREE** problems related to urban transport.

(3)

b) List **THREE** solutions to the urban transport problem.

(3)

(Total: 6 marks)

9. a) Briefly explain the term shanty town.

(3)

b) List **THREE** problems that are experienced in shanty towns.

(3)

(Total: 6 marks)

10. Briefly explain the terms:

a) Intensive farming: _____

(3)

b) Subsistence farming: _____

(3)

(Total: 6 marks)



SUBJECT:	Geography
PAPER NUMBER:	IIA
DATE:	14 th May 2024
TIME:	9:00 a.m. to 11:05 a.m.

Answer any **TWO** questions from Section A and any **TWO** questions from Section B.

Answer **FOUR** questions in total. Answers are to be written on the booklet provided.

Each question carries a total of 25 marks. Marks allocated to parts of the questions are indicated.

Good use of language and orderly presentation are important. The use of non-programmable calculators and geometric instruments is permitted.

SECTION A

Answer TWO questions from this section.

1. With the help of Figure 1, answer the following questions.

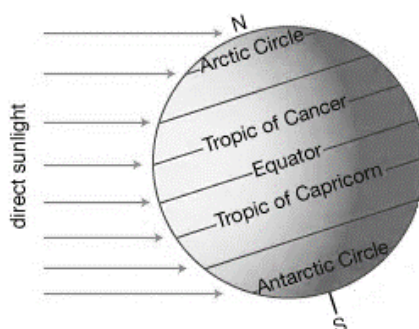


Figure 1: Earth's position in relation to the Sun.
(Source: <https://www.britannica.com/>)

- Explain how Earth's rotation causes day and night. (4)
- When Earth is in the position shown in Figure 1, what is the season at the Tropic of Cancer and the season at the Tropic of Capricorn? Explain your answer. (7)
- Explain why places on the Equator do **not** experience different seasons. (4)
- Which hemisphere is experiencing longer nights when Earth is in the position shown in Figure 1? Explain your answer. (6)
- Explain why places north of the Arctic Circle experience the midnight sun when Earth is in the position shown in Figure 1. (4)

(Total: 25 marks)

2. Figure 2 shows factors influencing soil formation and properties.

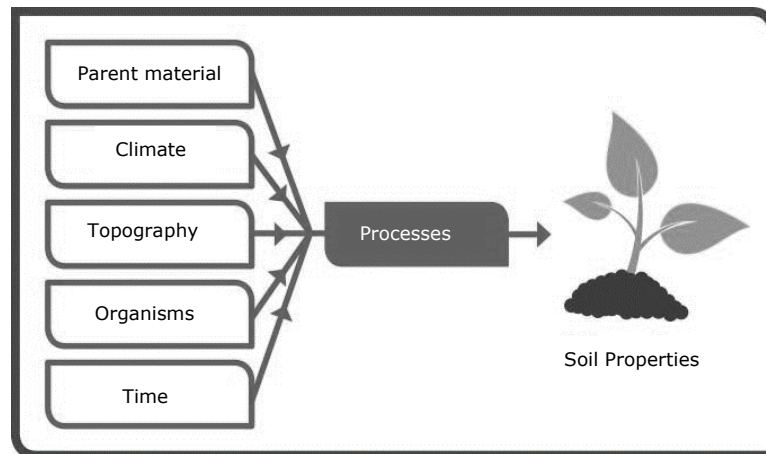


Figure 2: Factors influencing soil formation and properties.
(Source: <https://www.pmfias.com>)

- a) Describe how **TWO** of the factors shown in Figure 2 influence soil formation and properties. (6)
- b) Define the term soil erosion. (2)
- c) Describe **THREE** human activities that cause soil erosion. (9)
- d) Explain **TWO** methods that are used to protect soil from erosion. (8)

(Total: 25 marks)

- 3. a) Describe **TWO** desert landforms formed by water erosion. (6)
- b) Describe the formation of **TWO** desert landforms that are produced by the action of wind. Include labelled diagrams to better explain your answer. (13)
- c) Figure 3 shows the climate graph of the Sahara Desert that has a Tropical Desert climate. Describe **THREE** main characteristics of the Tropical Desert Climate. (6)

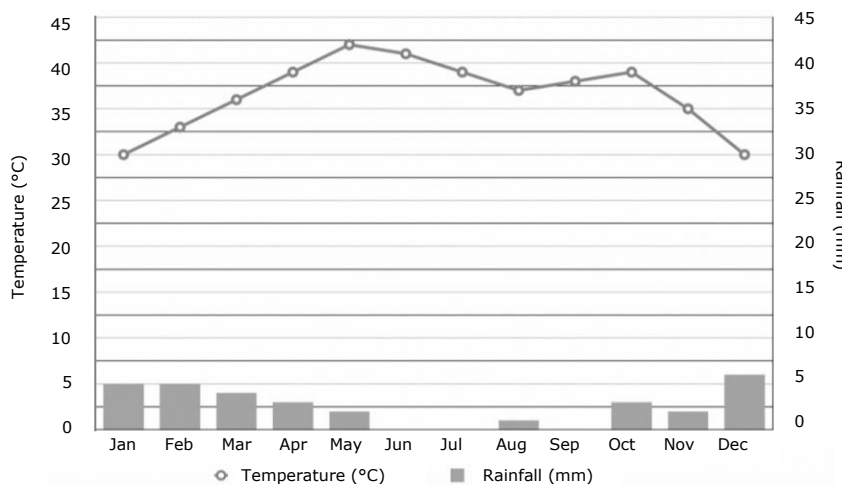


Figure 3: The temperature and rainfall graph of the Sahara Desert.
(Source: <https://www.internetgeography.net>)

(Total: 25 marks)

4. a) Define the following terms and briefly describe their effect on a beach: (4)
- i) swash; (4)
 - ii) backwash; (4)
 - iii) constructive waves; and (4)
 - iv) destructive waves. (4)
- b) Explain how a wave-cut platform is formed. Include a labelled diagram to better illustrate your answer. (9)
- (Total: 25 marks)**

SECTION B

Answer TWO questions from this section.

5. Figure 4 shows the population pyramid of Italy for the years 1950 and 2020.

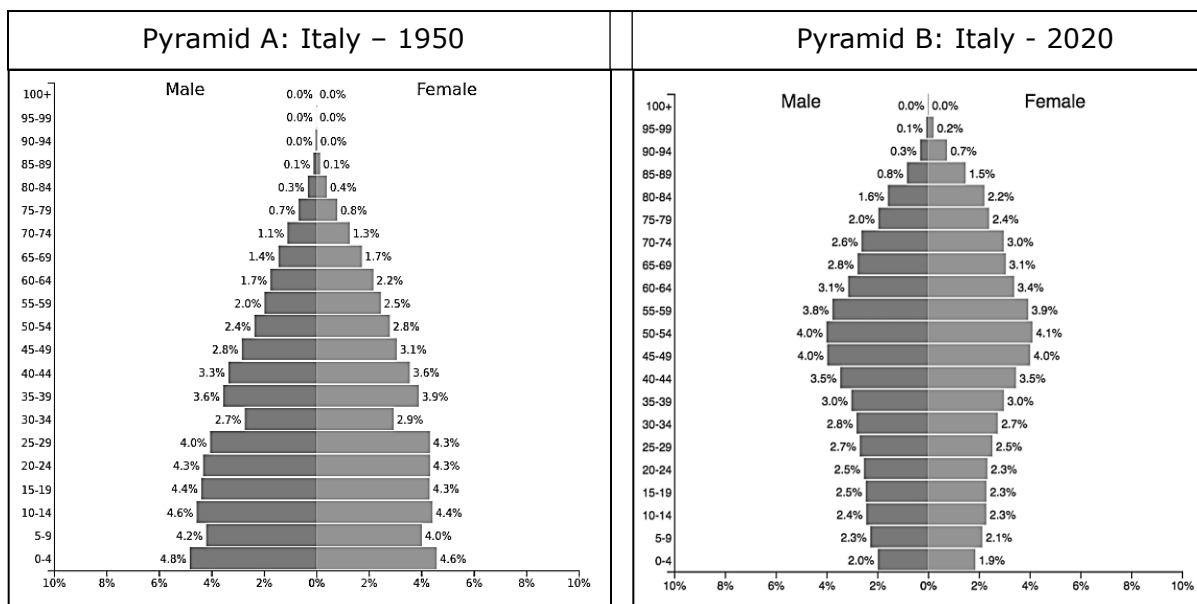


Figure 4: The population pyramids of Italy in 1950 and 2020.
(Source: <https://www.populationpyramid.net/italy>)

- a) Which population pyramid shows the following? (3)
- i) a long life expectancy;
 - ii) a high fertility rate; and
 - iii) a low birth rate.
- b) Explain **TWO** reasons for the decrease in birth rate in Italy between 1950 and 2020. (8)
- c) Explain **TWO** reasons for the decrease in death rate in Italy between 1950 and 2020. (8)
- d) Italy was one of the first countries to experience an ageing population. Describe **TWO** problems created by an ageing population. (6)

(Total: 25 marks)

Please turn the page.

6. a) Describe **TWO** physical factors and **TWO** human factors that influence the location of secondary industries. (12)
- b) Define the term deindustrialisation. (2)
- c) With reference to South Wales **OR** the Rhine-Ruhr industrial region:
- i) explain **TWO** causes of deindustrialisation in the region chosen. (8)
 - ii) describe **ONE** way how the industry in the region chosen is being regenerated. (3)
- (Total: 25 marks)**
7. More than two million tourists visited the Maltese Islands in 2023.
- a) List **THREE** reasons why tourism has increased globally. (3)
- b) Explain **TWO** positive impacts of tourism on the host country. (8)
- c) Explain **TWO** negative impacts of tourism on the host country. (8)
- d) Describe **TWO** ways how host countries try to minimise the negative effects of tourism. (6)
- (Total: 25 marks)**
8. a) Briefly explain **THREE** aims of the EU Agricultural Policy (CAP). (9)
- b) Explain **TWO** benefits of the EU Agricultural Policy. (8)
- c) Explain **TWO** problems brought about by the EU Agricultural Policy. (8)
- (Total: 25 marks)**



SUBJECT:	Geography
PAPER NUMBER:	IIB
DATE:	14 th May 2024
TIME:	9:00 a.m. to 11:05 a.m.

Answer any **TWO** questions from Section A and any **TWO** questions from Section B.

Answer **FOUR** questions in total. Answers are to be written on the booklet provided.

Each question carries a total of 25 marks. Marks allocated to parts of the questions are indicated.

Good use of language and orderly presentation are important. The use of non-programmable calculators and geometric instruments is permitted.

SECTION A

Answer **TWO** questions from this section.

1. Look carefully at the diagram in Figure 1 showing the position of Earth on 21 December and then answer the following questions.

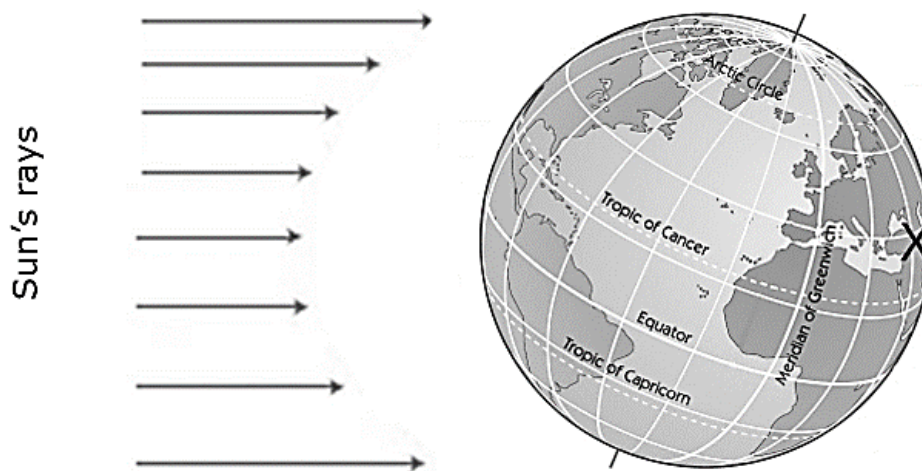


Figure 1: Earth's position in relation to the Sun on 21 December
(Source: adapted from <https://www.britannica.com/>)

- a) Briefly describe **FOUR** differences between lines of latitude and longitude. (8)
- b) Describe the **TWO** movements of Earth. (6)
- c) Which one of Earth's movements causes day and night? (1)
- d) What are the **TWO** main causes of seasons? (2)
- e) Is place X in Figure 1, experiencing day or night. Give **ONE** reason for your answer. (4)
- f) Why does the Tropic of Cancer experience the start of winter on 21 December? (4)

(Total: 25 marks)

2. a) How is soil formed? (5)
- b) Give the meaning of the term soil erosion. (2)
- c) Soil erosion is caused by both natural factors and human activities as shown in Figure 2. Explain **TWO** causes of soil erosion. (8)



Figure 2: Causes of soil erosion.
(Source: Gilson, E., 2013)

- d) Give the meaning of the term soil conservation. (2)
 - e) Rubble walls, terraced fields, crop rotation, wind breakers and the planting of trees help to conserve soil. Choose **TWO** of these methods and explain how **each** is used to protect soil from erosion. (8)
- (Total: 25 marks)**

3. On 8 March 2017, the Azure Window at Dwejra in Gozo collapsed into the sea after a storm. Study carefully Figure 3, which shows this feature before and after its collapse, and then answer the following questions.



Figure 3: The Azure Window before and after its collapse.
(Source: <https://www.bbc.com/news/world-europe-39207196>)

- a) What type of coastal feature was the Azure Window? (1)
 - b) Explain how the coastal feature mentioned in 3(a) above is formed. Include labelled diagrams to better illustrate your answer. (9)
 - c) Abrasion and hydraulic action are two coastal processes that erode coastal features like the Azure Window. Describe these **TWO** coastal erosion processes. (6)
 - d) During the storm that caused the collapse of the Azure Window, the coast of Dwejra was attacked by destructive waves. Describe **THREE** characteristics of destructive waves. (9)
- (Total: 25 marks)**

4. Figure 4 shows the three different types of rainfall.

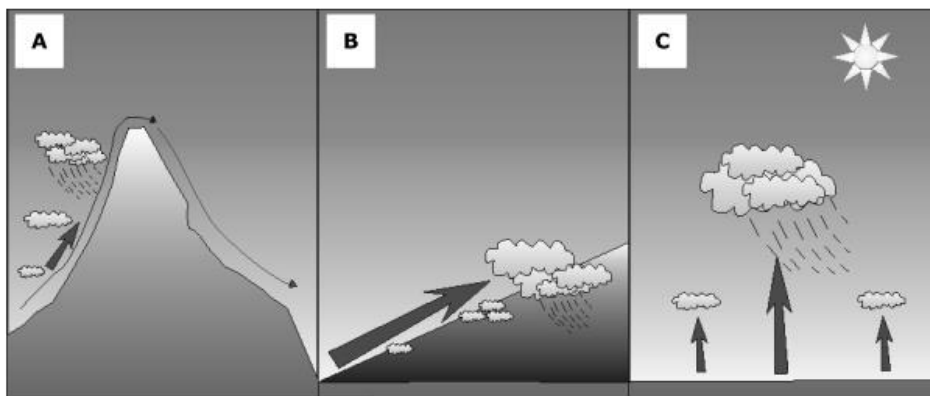


Figure 4. The three main types of rainfall.
 (Source: <https://commons.wikimedia.org>)

- a) Name the **THREE** types of rainfall labelled A to C in Figure 4. (3)
- b) Explain the formation of **TWO** of the main types of rainfall shown in Figure 4. (10)
- c) Apart from rainfall, other factors determine the climate of a particular region. Choose **THREE** of the following factors and explain how **each** factor affects temperature:
 - i) Latitude;
 - ii) Distance from the sea;
 - iii) Altitude;
 - iv) Prevailing winds; and
 - v) Ocean currents.

(12)

(Total: 25 marks)

SECTION B

Answer TWO questions from this section.

- 5. a) Define the term renewable energy. (2)
- b) Name **FIVE** types of renewable energy sources. (5)
- c) Describe **THREE** advantages of renewable energy. (9)
- d) Describe **THREE** disadvantages of renewable energy. (9)

(Total: 25 marks)

Please turn the page.

6. a) The Burgess concentric model is an urban land use model which shows the location of land use zones in cities. Provide a brief description of the Burgess concentric model, and sketch a labelled diagram to show the model. (7)
- b) The Central Business District in many cities has experienced many changes since Burgess's time. Describe **TWO** of these changes. (6)
- c) Describe **TWO** reasons why city centres often experience traffic congestion. (6)
- d) Describe **TWO** ways how traffic congestion in city centres can be reduced. (6)
- (Total: 25 marks)**

7. Italy is a country where the northern region is more developed than the southern region.
- a) Explain **FOUR** factors that helped the north of Italy to develop faster than the south. (16)
- b) Briefly explain **THREE** factors that hinder the south of Italy from developing like the north. (9)
- (Total: 25 marks)**

8. a) Define the following terms:
- i) birth rate; and
 - ii) death rate. (4)
- b) Developing countries tend to have a higher birth rate than developed countries. List:
- i) **TWO** reasons for a high birth rate in developing countries; and
 - ii) **TWO** reasons for a low birth rate in developed countries. (8)
- c) Developing countries tend to have a higher death rate than developed countries. List:
- i) **TWO** reasons for a high death rate in developing countries; and
 - ii) **TWO** reasons for a low death rate in developed countries. (8)
- d) Briefly describe **TWO** problems created by an ageing population in developed countries. (4)
- e) Give an example of a country that has an ageing population. (1)
- (Total: 25 marks)**