L-Università ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD

INTERMEDIATE MATRICULATION LEVEL
2023 FIRST SESSION

SUBJECT:	**Geography**
DATE:	19th May 2023
TIME:	9:00 a.m. to 12:05 p.m.

Directions to Candidates

Answer a total of **FOUR** questions: **TWO** questions from **each** of the two Sections.
The use of non-programmable calculators is permitted. **ALL** questions carry equal marks.

SECTION A: PHYSICAL GEOGRAPHICAL PROCESSES

1. Figure 1 shows the coastal features of Blue Grotto, Malta.

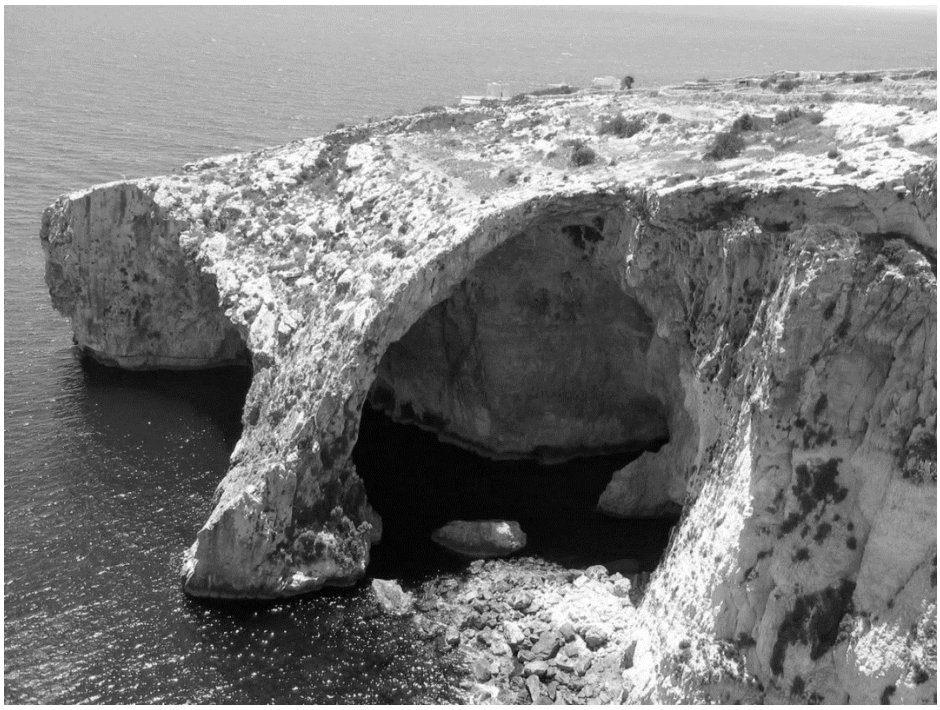

Figure 1: Coastal features at the Blue Grotto, Malta.
(Source: https://en.wikipedia.org)

(a) Name **TWO** coastal features which can be seen in Figure 1. (2)

(b) Describe the formation of the **TWO** coastal features named in 1 (a). Include well-labelled diagrams. (14)

(c) With the help of a diagram and by referring to a particular example in the Maltese Islands, explain how beaches are formed. (9)

(Total: 25 marks)

Please turn the page.

2. Figure 2 shows the global distribution of volcanic activity.

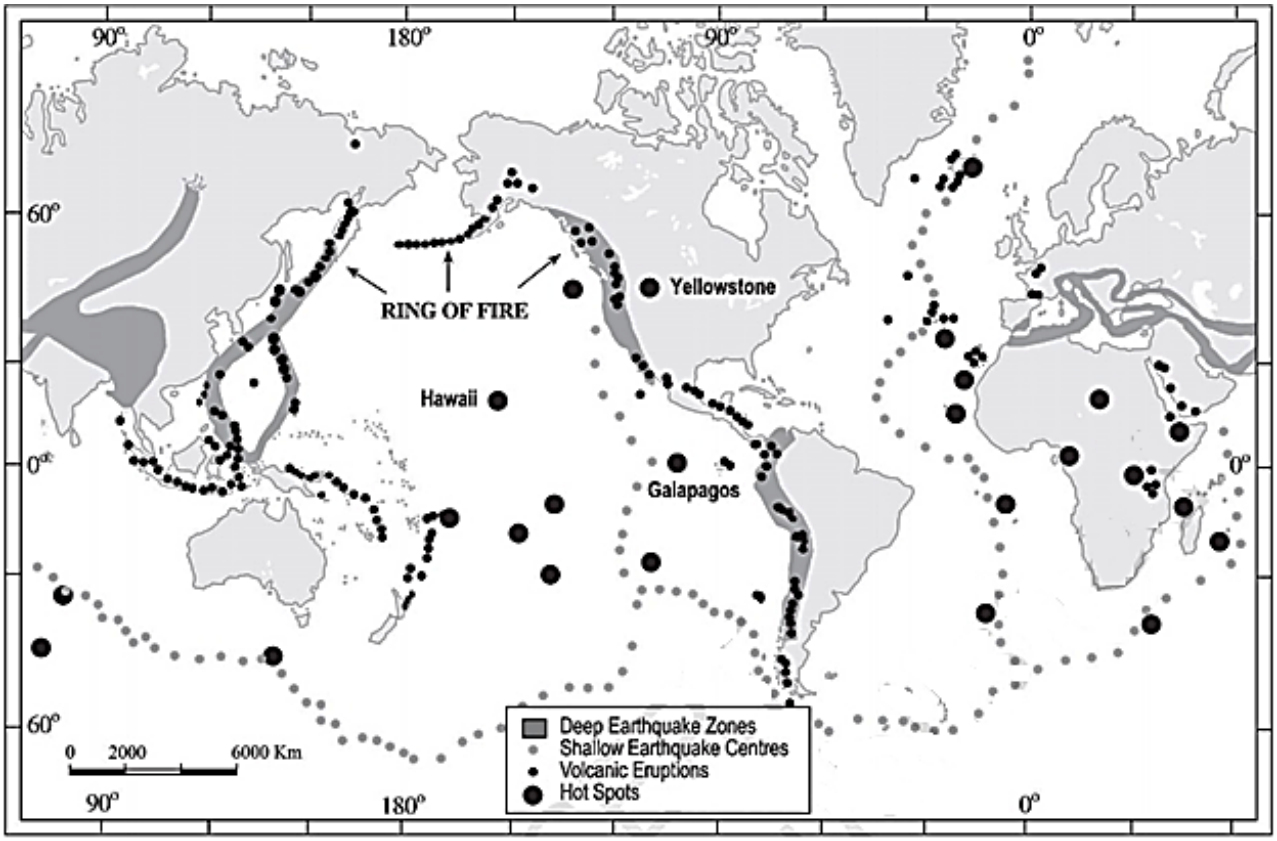

Figure 2: Global distribution of volcanically active areas.
(Source: https://www.insightsonindia.com)

(a) Explain the causes of volcanic eruptions. (10)

(b) By referring to Figure 2, give reasons for the distribution of volcanic activity. (6)

(c) Human communities can be found living on volcanic slopes. Discuss **THREE** advantages of living in volcanically active zones. (9)

(Total: 25 marks)

3. (a) Define the terms global warming, and climate change. (4)

(b) Human activities are major contributors to global warming. Explain how, by referring to **THREE** specific human activities. (9)

(c) Discuss **TWO** extreme weather conditions that are increasing due to climate change. (8)

(d) Name **TWO** measures that could be taken at a national policy level to combat global warming. (4)

(Total: 25 marks)

4. Figure 3 shows groundwater reserves in Malta.

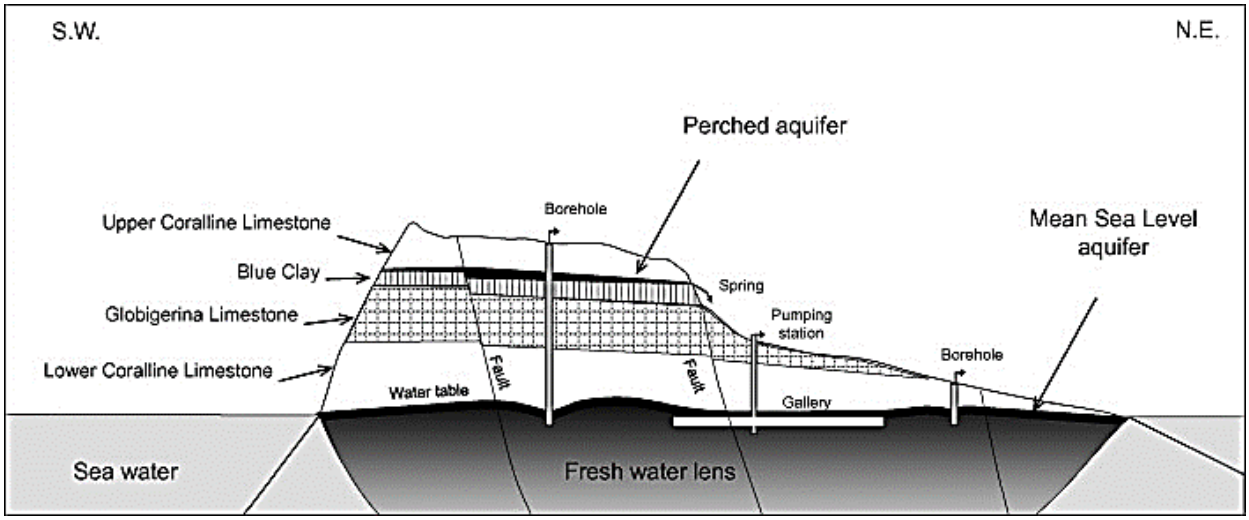

Figure 3: Groundwater reserves in Malta.
(Source https://www.sciencedirect.com)

(a) Define the term groundwater. (3)

(b) Explain the formation of groundwater in the Maltese Islands. (10)

(c) Discuss **THREE** threats to groundwater reserves in the Maltese Islands. (12)

(Total: 25 marks)

SECTION B: HUMAN GEOGRAPHICAL PROCESSES

5. (a) Define population density. (4)

(b) Provide an example of a country that has one of the highest population densities in the world. (1)

(c) Discuss **TWO** factors that attract a high population density. (10)

(d) Discuss **TWO** problems that may be faced by countries with a high population density. (10)

(Total: 25 marks)

6. (a) Draw a well-labelled diagram of:
i) the Burgess Concentric Zone Model; and (5)
ii) the Hoyt Sectoral Model of urban growth. (5)

(b) Identify **TWO** differences and **TWO** similarities between Burgess and Hoyt's models. (12)

(c) Briefly explain whether the models are applicable in the real world today. (3)

(Total: 25 marks)

Please turn the page.

7. (a) Discuss why farming is considered as a system. (15)

   (b) Briefly describe **FIVE** characteristics of farming in the Maltese Islands. (10)

(Total: 25 marks)

8. (a) Why is the construction industry classified as a secondary industry? (3)

   (b) Name **TWO** other secondary industries in the Maltese Islands. (2)

   (c) Discuss **THREE** environmental impacts that the construction industry has in the Maltese Islands. (15)

   (d) Explain how construction waste in Malta can be reduced. (5)

(Total: 25 marks)