
GEOGRAPHY

H.C.G. - Paper – 2

(Two hours)

Answers to this Paper must be written on the answer sheet provided separately.

*You will **not** be allowed to write during the first **15** minutes.*

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

*Attempt **seven** questions in all.*

Part I is compulsory. All questions from Part I are to be attempted.

*A total of **five** questions are to be attempted from **Part II**.*

The intended marks for questions or parts of questions are given in brackets [].

Note:

- (i) *In all **Map Work**, make wise use of arrows to avoid overcrowding of the map.*
- (ii) *The Map given at the end of this question paper must be detached, and after marking, must be fastened to your answer booklet.*
- (iii) **All sub-sections of the questions attempted must be answered in the correct serial order.**
- (iv) *All working including rough work should be done on the same answer sheet which is used to answer the rest of the paper.*

PART I (30 Marks)

Attempt all questions from this Part

Question 1

Answer the following questions briefly:

- (a) Why are the lines of longitudes also called *meridians*? [2]
- (b) (i) What is meant by the *inclination of the Earth's axis*? [2]
(ii) At what angle is the Earth's axis inclined?
- (c) State two differences between *rocks* and *minerals*. [2]
- (d) Explain the following terms: [2]
(i) Exfoliation
(ii) Oxidation
- (e) (i) What are the Jet streams? [2]
(ii) State any one importance of Jet streams.
- (f) Draw a well labelled diagram of orographic rainfall. [2]
- (g) (i) Name any two sources of soil pollution. [2]
(ii) State the impact of soil pollution on agricultural production.
- (h) With reference to the Natural regions of the world answer the following: [2]
(i) Why does the Taiga region *not* exist in the Southern hemisphere?
(ii) Prairies are called the *granaries of the world*.
- (i) How does the rotation of the earth influence the direction of the ocean currents? [2]
- (j) (i) What is Coriolis Effect? [2]
(ii) How does it affect the planetary winds?

Question 2

On the outline World map **mark and label** the following:

- (a) The Rockies [1]
- (b) The Brazilian Highland [1]
- (c) River Volga [1]
- (d) Gulf of Mexico [1]
- (e) Strait of Gibraltar [1]
- (f) Sea of Japan [1]
- (g) South China Sea [1]
- (h) The Canadian Shield [1]
- (i) River Amazon [1]
- (j) Shade and label the Equatorial region in the continent of Africa [1]

PART II (50 Marks)

Attempt **any five** questions from **this Part**

Question 3

- (a) (i) Why are latitudes also called parallels of latitude? [2]
(ii) Why are all the lines of longitude of the same length?
- (b) State two effects of the rotation of the earth. [2]
- (c) Give a geographical reason for each of the following: [3]
 - (i) Great circles are the shortest routes between two places.
 - (ii) The Earth is a habitable planet.
 - (iii) Kuala Lumpur rotates faster on the Earth's axis than London.
- (d) Draw a neat labelled diagram showing the position of the Earth during summer solstice. [3]

Question 4

- (a) What is the composition of the Earth's Crust? [2]
- (b) (i) Differentiate between *intermont plateau* and *volcanic plateau*. [2]
(ii) Give an example of *residual mountain* and an example of *depositional plain*.
- (c) Draw a neat well labelled diagram of the Rock Cycle. [3]
- (d) Give a reason for each of the following: [3]
(i) Igneous rocks are also called Primary rocks.
(ii) Fossils are present in Sedimentary rocks.
(iii) The core of the Earth is in a semi-solid state.

Question 5

- (a) Name any two types of volcanoes giving one example of each type. [2]
- (b) Define the following terms: [2]
(i) Epicentre
(ii) Focus
- (c) Give a geographical reason for each of the following: [3]
(i) Volcanic activity and earthquakes occur in the same belt.
(ii) All rivers do not form a delta.
(iii) Chemical weathering is more common in the tropical regions.
- (d) Explain the meaning of the following terms: [3]
(i) Deflation hollow
(ii) River meander
(iii) Block disintegration.

Question 6

- (a) State four factors that affect the movement of ocean currents. [2]
- (b) Draw a neat and well labelled diagram showing the two types of tides. [2]
- (c) Give a reason for each of the following: [3]
- (i) Newfoundland has rich fishing grounds.
 - (ii) The eastern coast of Japan is warm even in January.
 - (iii) The tidal range differs from one water body to the other.
- (d) State three ways in which oceans are important to us. [3]

Question 7

- (a) "Higher the latitude, lower is the temperature." [2]
Justify the statement with an example.
- (b) (i) What is the cause of ozone depletion? [2]
- (ii) State the impact of ozone depletion on human life.
- (c) Give a reason for each of the following: [3]
- (i) The snow on the slope of Himalayas in Nepal melt faster than that on the slope towards Tibet.
 - (ii) Tropical deserts have a large annual range of temperatures.
 - (iii) Equatorial regions have low atmospheric pressure throughout the year.
- (d) Draw a neat labelled diagram of the structure of the Earth's atmosphere. [3]

Question 8

- (a) Name the region in which the following local winds blow: [2]
- (i) Chinook
 - (ii) Mistral
 - (iii) Foehn
 - (iv) Loo
- (b) (i) What are 'doldrums'? [2]
- (ii) Why is it so called?
- (c) Draw a well labelled diagram of sea breeze. [3]
- (d) Give a reason for each of the following: [3]
- (i) Roaring forties and furious fifties are found in the Southern hemisphere.
 - (ii) Low atmospheric pressure prevails over the circum polar region.
 - (iii) Cyclones are always followed by anticyclones.

Question 9

- (a) Distinguish between absolute and relative humidity. [2]
- (b) (i) Name the type of rainfall experienced in the Equatorial region. [2]
- (ii) State two characteristic features of the rainfall mentioned by you.
- (c) (i) How is dew formed? [3]
- (ii) How is frost different from dew?
- (iii) Why is fog commonly formed in the winter season?
- (d) Give a reason for each of the following: [3]
- (i) A rain shadow area is generally dry.
 - (ii) Frontal rain is common in mid latitudes.
 - (iii) Convective rainfall is also called 4 o'clock rainfall.

Question 10

- (a) Explain how industrial waste and vehicular emission act as the source of air pollution. [2]
- (b) Which health hazards are associated with radioactive waste? [2]
- (c) (i) What is organic farming? [3]
(ii) Why is this form of farming gaining popularity in recent times?
- (d) Discuss how individuals may reduce energy consumption to create a cleaner and eco-friendly world. [3]

Question 11

- (a) Why are tropical deserts found along the western margins of the continents? [2]
- (b) Name the economic activities practised in the tropical grasslands. [2]
- (c) Give a reason for each of the following: [3]
(i) "The Equatorial region is also called the lungs of the world."
(ii) The trees found in the Mediterranean region have long roots and thick barks.
(iii) Tundra region has a low annual range of temperature.
- (d) (i) What type of climate is experienced in the north-western part of Europe? [3]
(ii) What is the human response to the typical climate of this region?

ONLY FOR THE EXAMINER	
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Map of World for Question 2.

