

**CLASS IX - ANNUAL EXAMINATION**

**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.*

**This Paper consists of 7 printed pages and 1 outline map.**

## PART I (30 Marks)

Attempt all questions from this Part

## Question 1

Answer the following questions briefly:

(a) What is a *Great Circle*?

Name a latitude which is a *Great Circle*.

(b) What do you understand by the *Standard Meridian*?

(c) What is the composition of the Earth's *Crust*?

(d) What conditions favour life on earth?

(e) Why it is practical to follow standard time rather than the local time?

(f) (i) Name a feature which is formed as a result of deposition by wind in desert area.

(ii) Name a cold ocean current which affects fishing industry of Japan.

(g) What is a time zone? How many time zones are there in the world?

(h) Which pressure belt is known as 'horse latitude'? Why?

(i) Mention any two steps that an individual can take to reduce noise pollution.

(j) To which Natural regions of the world are the following associated?

(i) Conical-shaped soft wood trees.

(ii) 4 o'clock rains.

## Question 2

On the outline World map provided:

(a) Shade and label the *Black Sea*.

(b) Shade and label the *Hudson Bay*.

(c) Mark and label the mountain range *Drakensberg*.

(d) Mark and label the mountain range *Andes*.

- (e) ✓ Shade and label the *Mongolian Plateau*. [1]
- (f) ✓ Shade and label a region with *Mediterranean type of climate*. [1]
- (g) ✓ Mark and label river *Indus*. [1]
- (h) ✓ Mark and label the river *Colorado*. [1]
- (i) ✓ Mark and label the river *Euphrates*. [1]
- (j) ✓ Shade and label the *Tropical desert in Australia*. [1]

## PART II (50 Marks)

Attempt any five questions from this Part

## Question 3

- (a) (i) ✓ What is a latitude? [2]
- (ii) ✓ Name the latitudes which demarcate northern and southern limit of the torrid zone.
- (b) ✓ Calculate the time of a place located at  $30^{\circ}\text{E}$  longitude, when it is 10 p.m. at  $30^{\circ}\text{W}$  longitude. [2]
- (c) ✓ Draw a neat, well labelled diagram to show *Winter Solstice*. [3]
- (d) (i) ✓ Mention two effects of the Earth's revolution. [3]
- (ii) ✓ How much time does the earth take to make one revolution?

## Question 4

- (a) (i) ✓ What is the composition of the *core of the earth*? [2]
- (ii) ✓ Why does it occur in a *semi molten state*?
- (b) (i) ✓ How are fold mountains formed? [2]
- (ii) ✓ Give an example of a young fold mountain.
- (c) (i) ✓ What are Fossils? In which type of rocks do we find fossils? [3]
- (ii) ✓ What do you understand by 'ROCK CYCLE'?

- (d) (i) How is metamorphic rock formed?
- (ii) Classify the following rocks into igneous, sedimentary and metamorphic rocks:
1. Granite
  2. Limestone
  3. Basalt
  4. Marble.

### Question 5

- (a) Briefly explain the meaning of the following: [2]
- (i) Weathering
  - (ii) Denudation
- (b) Explain the following: [2]
- (i) Epicentre
  - (ii) Richter scale
- (c) Give a reason for each of the following: [3]
- (i) Exfoliation is common in deserts.
  - (ii) V-shaped valleys are formed by rivers.
  - (iii) Limestone regions have prominent examples of chemical weathering.
- (d) (i) Draw a labelled diagram of the *structure of a volcano*. [3]
- (ii) State any two positive effects of volcanoes.

### Question 6

- (a) (i) What is the importance of hydrosphere? [2]
- (ii) What percentage of the Earth is covered by the Hydrosphere?

- (b) Mention two factors which affect the pattern of circulation of ocean currents. [2]
- (c) Give a reason for each of the following: [3]
- The waters of the *Oyashio current* form one of the richest fishing grounds in the world.
  - The coast of Norway remains *ice free during winter*.
  - Warm ocean currents* create a milder climate.
- (d) Draw a well labelled diagram of a *spring tide*. [3]

### Question 7

- (a) Write the names of the four *layers of the atmosphere*. [2]
- (b) (i) In which layer of the atmosphere do we find *ozone*? [2]  
 (ii) Why is the *Ozone layer* very significant in the atmosphere?
- (c) (i) What is *Global Warming*? [3]  
 (ii) Mention any two causes of *Global Warming*.
- (d) (i) Name the two most important gases present in the atmosphere. [3]  
 Mention the percentage of both these gases named by you.  
 (ii) Why is the height of tropopause over the Equator more than over the poles?

### Question 8

- (a) (i) Mention two factors that affect *atmospheric pressure*, e.g. [2]  
 (ii) Give one way in which *Monsoon* is similar to and one way in which it is different from *Land and Sea breezes*?
- (b) Give a reason for each of the following: [2]
- Trade winds* move from South east in *Southern hemisphere*.
  - Chinook* is popularly called *snow eater*.

(c) (i) Name the *four main pressure belts* of the world. [3]

(ii) What is a *front*?

(d) (i) Name two types of *variable winds*. [3]

(ii) Why are they known as variable winds?

(iii) What is the importance of Jet streams in the climate of India?

### Question 9

(a) Differentiate between *Fog* and *Mist*. [2]

(b) What is *condensation*? Name two forms of *condensation*. [2]

(c) (i) Name three different types of *rainfall*. [3]

Which is most common in the *Equatorial region*?

(ii) Why do *polar regions* receive very low rainfall?

(d) Draw a fully labelled diagram showing the occurrence of rainfall caused by a mountain barrier. [3]

### Question 10

(a) What do you understand by '*SMOG*'? Why is it dangerous? [2]

(b) Give a reason for each of the following: [2]

(i) *Vehicles* are the main source of *air pollution*.

(ii) The use of *CFCs* is the main cause of the *depletion of the ozone layer*.

(c) (i) What are the *sources of radioactive pollution*? [3]

(ii) How does radioactive pollution harm the environment?

(d) (i) Mention any two processes utilised by *organic farming*. [3]

(ii) Give two points why *organic farming* is important.