



ST. JOSEPH'S COLLEGE, PRAYAGRAJ
HALF YEARLY EXAM – OCTOBER 2023
GEOGRAPHY
CLASS IX

Time: 2 Hrs.

M.M.: 80

1. All questions are compulsory in Part I and attempt ANY 5 in Part II.
2. Do all SUBSECTIONS in correct SERIAL ORDER.
3. Kindly do all work NEATLY and SYSTEMATICALLY.

PART I (30 Marks)

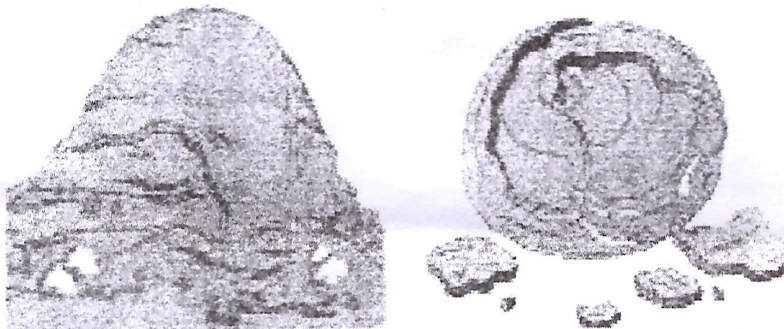
Attempt all questions from this Part

Question 1.

Answer the following questions briefly:

[5x2=10]

- a) State two characteristics of Mantle.
- b) What are time zones? How many time zones do we have?
- c) Differentiate between the following.
 - i. IST and GMT
 - ii. Rock and minerals
- d) Give reason for the following.
 - i. Weathering is a beneficial process
 - ii. Earthquake are frequent in Japan.
- e) Refer to the image below and answer the questions that follow.



- i. Identify the process involved in weathering.
- ii. State the type of weathering to which it belongs.

Question 2.

Show the following on the given outline map of the world.

- | | |
|----------------------------|-----|
| a) River Colorado. | [1] |
| b) Canadian Shield. | [1] |
| c) Scandinavian Highlands. | [1] |
| d) River Nile. | [1] |
| e) River Amazon. | [1] |
| f) River Ob. | [1] |
| g) Mt. Urals. | [1] |
| h) Great Dividing Range. | [1] |
| i) Mt. Drakensburg. | [1] |
| j) Mt. Atlas. | [1] |

Question 3. Choose the correct option.

[10x1=10]

- i. Earth's orbit lies between
 - a) Venus and Mars
 - b) Mercury and Venus
 - c) Mars and Jupiter
 - d) Jupiter and Saturn
- ii. Every country calculates its standard Meridian as the angular distance from Greenwich Meridian. If it is known at GMT What is the time on Indian Standard Time?
 - a) 5:30 PM
 - b) 5:00 PM
 - c) 5:20 PM
 - d) 5:30 AM
- iii. Vosges and Sierra Nevada Mountain are examples of which types of mountains.
 - a) Fold mountain
 - b) block mountain
 - c) volcanic mountain
 - d) none of the above
- iv. Which process is necessary for the formation of igneous rocks.
 - a) Erosion
 - b) Deposition
 - c) Metamorphism
 - d) Solidification
- v. The giant sea wave caused by earthquakes in the ocean are called as.....
 - a) Tidal waves
 - b) Tsunamis
 - c) Territory waves
 - d) none of the above
- vi. Volcanoes that haven't erupted in the historic times are known as....
 - a) Active volcanoes
 - b) Dormant volcanoes
 - c) extinct volcanoes
 - d) Instinct volcanoes
- vii. An example of chemical weathering
 - a) Ice Wedging
 - b) Oxidation
 - c) Exfoliation
 - d) None of the above
- viii. Peeling off of the outer layer of rock through contraction and expansion is known as
 - a) Granular Disintegration
 - b) Exfoliation
 - c) Block Disintegration
 - d) Oxidation

- ix. Which of the following is correct?
- Aphelion: earth is closest to the sun
 - Aphelion: earth is farthest from the sun
 - Aphelion: moon is closest to the earth
 - Aphelion: the equator is closest to the sun.
- x. Which of the following is the correct order as we move towards the surface of the earth?
- SIAL - SIMA - NIFE
 - NIFE - SIMA - SIAL
 - NIFE - SIAL - SIMA
 - None of the above.

PART II [50 Marks]

Choose any five questions from this Part

Question 4.

- How was it proved that the Earth is an oblate sphere? [2]
- Give any two features of the earth that make it a 'Unique Planet'. [2]
- Name the three types of seismic waves. Also mention one characteristic of each type of wave mentioned. [3]
- Give a geographical reason for each of the following: [3]
 - Sial floats on Sima
 - The time of sun rise and sunset is not the same everywhere.
 - Presence of water on the Earth is essential for our survival.

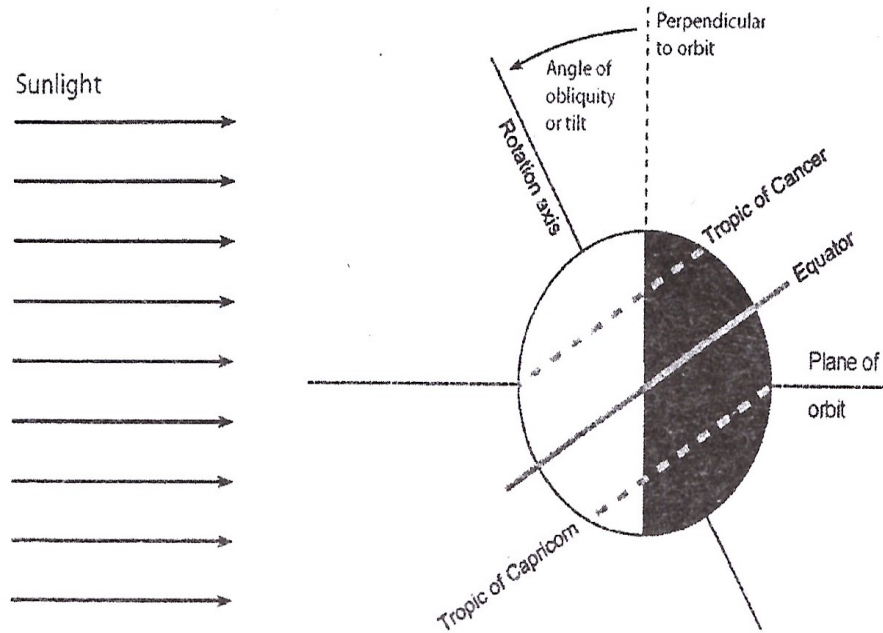
Question 5.

- Distinguish between the following. [2]
 - Local Time and standard Time
 - Parallels and Meridians
- Calculate the time at Durban (longitude 30°E) when the time is 7:00 a.m. at New York (75°W). [2]
- Give a geographical reason for each of the following. [3]
 - The use of local time is inconvenient in practical life
 - Lines of longitude are called Meridians.
 - Great circle routes are the shortest in the world.
- What is I.D.L? Why it is not a straight line like other longitudes and state the deviation it makes. [3]

Question 6.

- What is meant by the inclination of the Earth's Axis? State its effect on the duration of day and night. [2]
- Differentiate between Solstice and Equinox. (two points of difference) [2]
- Why does the speed of Earth's revolution vary? [3]
 - Name the path along which the Earth travels when moving round the Sun. How long does this movement take place?

- d) Refer to the image below and answer the questions that follow. [3]
- What does the diagram show and on which date does the above phenomenon occur?
 - Which hemisphere has the longest night on this day?
 - The rays of the sun fall vertically on which latitude?



Question 7.

- What are plains? How does it differ from a plateau? [2]
- State any two characteristics of young fold mountains. [2]
- Give a reason for the following statements. [3]
 - Residual mountains are also called mountains of Denudation.
 - Plateaus have large rugged topography.
 - The old fold mountains are much lower and less rugged than young fold mountains.
- Write short notes on the following. [3]
 - Intermontane Plateaus
 - Block mountains
 - Depositional Plains

Question 8.

- Define Lithification and Metamorphism. [2]
- How are Igneous Rocks formed? Give two examples. [2]
- Give a geographical reason for each of the following. [3]
 - Igneous rocks are resistant to erosion
 - Sedimentary rocks are also called stratified rocks.
 - Rocks are of great economic significance.
- What is Rock Cycle? Explain with the help of diagram. [3]

Question 9.

- a) Distinguish between the following. [2]
i. Active and Extinct Volcanoes
ii. Seismic focus and Epicenter
- b) Give a geographical reason for each of the following. [2]
i. Human beings are responsible for occurrence of earthquakes.
ii. Circum pacific belt is called 'Ring of Fire'.
- c) Describe the distribution of Earthquakes in the world. [3]
- d) i. Write any two constructive effect of volcanoes. [3]
ii. Write one destructive effect of Earthquake.

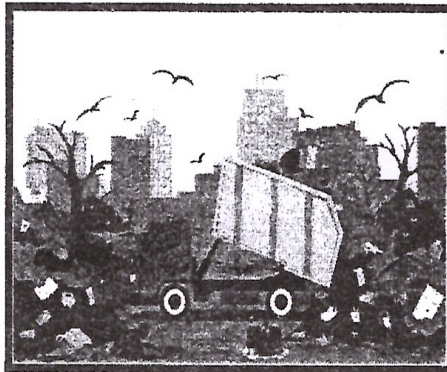
Question 10.

- a) Define weathering. State any two factors responsible for weathering? [2]
- b) How the humans are involved in the weathering of rocks? [2]
- c) i. Explain any two disadvantages of weathering?
ii. Differentiate between Solution and Carbonation. [3]
- d) Give a geographical reason for each of the following. [3]
i. Weathering is a static phenomenon.
ii. Change of temperature leads to physical weathering.
iii. Presence of water aids chemical weathering.

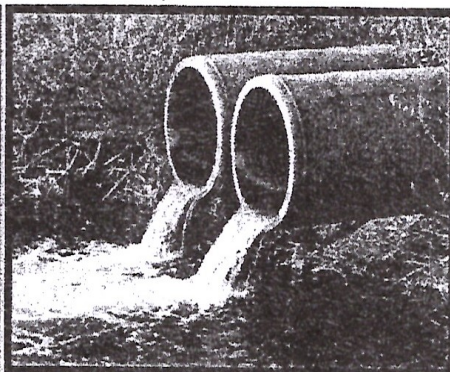
Question 11.

- a) How do agricultural wastes harm the environment? [2]
- b) How do water bodies get contaminated by the effluents from industries? [2]
- c) i. How is noise a source of pollution? Why do we need to look at the problem of noise pollution seriously? [3]
ii. Why Biomedical Waste should be treated properly before dumping?
- d) Identify the sources of pollution in the pictures given below. [3]

i.



ii.



iii.

