



ST. JOSEPH'S COLLEGE, PRAYAGRAJ

FINAL EXAMINATION 2024-25

GEOGRAPHY

CLASS – IX

TIME: 2 Hours

MM: 80

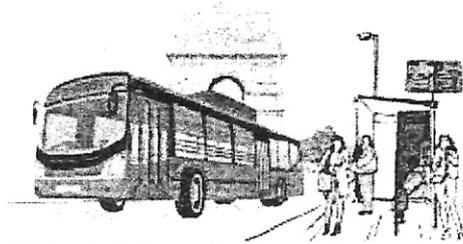
Attempt all questions from Part I (Compulsory)
A total of five questions are to be attempted from Part II.
The marks intended for questions or part of questions are given in brackets [].

PART – I [30 Marks]

(Attempt all questions from this Part)

Q 1) Answer the following questions briefly:

- 7) Name the factors which affects the atmospheric pressure of a place. [2]
- 7) Explain the following terms. [2]
 - i. Dew
 - ii. Absolute Humidity
- 7) Study the picture given below and answer the questions that follow: [2]



- i. How can public transport vehicles help in saving energy?
- ii. Name some alternative modes of public transport other than the one given in the picture.
- 7) Name the processes involved in chemical weathering. [2]
- 7) Distinguish between each of the following: [2]
 - i. Standard time and local time.
 - ii. Cyclone and Anticyclone.

Q 2) On the outline World map provided

- 1) Name the River Paraguay. [1]
- 2) Name the River Zaire. [1]
- 3) Shade and label Brazilian Plateau. [1]
- 4) Mark with bold line and label Andes. [1]
- 5) Name the River Amazon. [1]
- 6) Shade and label Perian Gulf. [1]
- 7) Shade and label Strait of Malacca. [1]
- 8) Shade and label Mediterranean Sea. [1]
- 9) Mark and label Urals. [1]
- 10) Shade and label Hudon Bay. [1]

Q 3) Choose the correct option for each of the following:

- 1) Change in season is caused by: [10]
 - a) Only earth's revolution.
 - b) Earth's revolution and inclination of its axis.
 - c) Both earth's rotation and revolution.
 - d) Earth's rotation and inclination of its axis.
- 2) The standard time is always divisible by:
 - a) 2.5°
 - b) 7.5°
 - c) 17.5°
 - d) 20.5°
- 3) The process that turns loose sediments into rocks:
 - a) Cementation
 - b) Lithification
 - c) Oxidation
 - d) None of these
- 4) Rock disintegration without any change in the chemical constituents of the rock:
 - a) Block Disintegration
 - b) Mechanical Weathering
 - c) Carbonation
 - d) Organic Weathering.
- 5) The point on the earth's surface directly above the seismic focus is called:
 - a) Epicentre
 - b) Seismic focus
 - c) Seismograph
 - d) Mercalli
- 6) Which amongst the following is NOT one of the causes of Ocean Currents?
 - a) Level of Salinity
 - b) Temperature
 - c) The Earth's Revolution
 - d) Planetary Winds

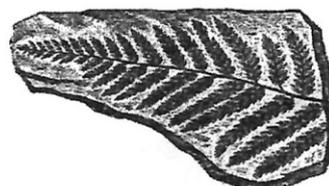


- 7) Which amongst the following is not a domain of the Biosphere?
a) Lithosphere b) Exosphere c) Hydrosphere d) Atmosphere
- 8) Assertion (A): Wind is the result of only the differences in atmosphere.
Reason(R): Wind is nature's attempt to balance inequalities in air pressure.
a) Both (A) and (R) are true and (R) is the correct explanation of (A).
b) Both (A) and (R) are true but (R) is not the correct explanation of (A).
c) (A) is true but (R) is false.
d) (R) is false but (R) is true.
- 9) Which type of rainfall occurs on the windward side?
a) Monsoonal b) Orographic c) Convectional d) Cyclonic
- 10) Assertion (A): Acid rain is the rainwater containing dissolved acids.
Reason(R): Oxides of Sulphur and Nitrogen dissolves in rainwater and give rise to acid rain.
a) Both (A) and (R) are true and (R) is the correct explanation of (A).
b) Both (A) and (R) are true but (R) is not the correct explanation of (A).
c) (A) is true but (R) is false.
d) (A) is false but (R) is true.

PART – II [50 Marks]

(Attempt any five questions from this Part)

- Q 4)** a) The seasons are caused by the rotation of the spherical Earth on its inclined axis and the revolution of the Earth around the Sun. In this context state how, the following seasons are distinguished. [2]
i. Summer.
ii. Winter.
- b) Mention two important properties of parallel of latitude. [2]
- c) When it is 12pm on Monday at Greenwich. What is the local time of Tokyo (140° E). [3]
- d) Give a reason for each of the following: [3]
i. We do not feel the motions of the earth.
ii. We always see the sun rising in the east.
iii. Lines of longitude are of same length.
- Q 5)** a) What are the sources of heat and pressure that contribute to the extreme temperature and pressure condition in the earth's interior? [2]
- b) Write short notes on: [2]
i. Gutenberg Discontinuity
ii. Biosphere
- c) Give a reason for each of the following: [3]
i. The crust of the earth is neither stable nor permanent.
ii. Plateaus are also called tableland.
iii. Presence of water on Earth is essential for our survival.
- d) The Himalayas are fold mountains stretching over the northern borders of India. These mountain ranges run the Indus River in the west to the Brahmaputra River in the east. [3]
i. Give any two features of the fold mountains.
ii. Name two-fold mountains other than the Himalayas.
- Q 6)** a) Chemical weathering is another significant process that alters the composition of rocks through chemical reactions. One common type of chemical weathering is carbonation, which involves the reaction between carbon dioxide and the atmosphere and rainwater to form carbonic acid. This weak acid can dissolve carbonate minerals like limestone, leading to the creation of features such as caves and sinkholes. [2]
i. Compare the effect of carbonation and oxidation on rocks.
ii. How does the presence of water influence the rate of chemical weathering?
- b) State the chief characteristics of metamorphic rocks. [2]
- c) Study the picture given below and answer the following questions that follow: [3]



[2]

- i. What is shown in the picture above and in which type of rock it is found?
- ii. Mention any two characteristics of the given rock.
- d) Name the following: [3]
 - i. Disintegration or decomposition of rock.
 - ii. Peeling off of the outer layer of rock through contraction and expansion.
 - iii. Expansion of minerals in rocks on coming into contact with rainwater.

Q 7) a) The destructive effects of an earthquake are far more than its constructive effects. Give reasons to support your answer. [2]

b) Name two types of ocean currents based on their temperature. Give an example of each. [2]

c) Describe one effect of each of the following ocean currents. [3]

- i. Labrador Current of the Atlantic Ocean.
- ii. The Kuroshio current
- iii. Oyashio Current of the Pacific Ocean.

d) Describe the Circum-Pacific Belt of Volcanoes? [3]

Q 8) a) Distinguish between each of the following: [2]

- i. Insolation and Terrestrial Radiation
- ii. Marine and Continental Climate

b) What are the main effects of global warming? [2]

c) The word troposphere has been derived from the Greek word tropos, meaning, mixing. Thus, troposphere stands for the 'zone of mixing' and tropopause means where the mixing stops.

- i. As a student of Geography what according to you is the reason for the importance of this layer. [3]
- ii. List any two characteristics of the troposphere.

d) Give a reason for each of the following: [3]

- i. Higher the latitude, lower is the temperature.
- ii. Land is heated and cooled faster than the sea.
- iii. Northern slopes of Himalayas are cooler than its southern slopes.

Q 9) a) Write a short note on Equatorial low-pressure belt? [2]

b) Define Chinook. Mention its economic benefit. [2]

c) i. Differentiate between Trade Winds and Westerlies. [3]

ii. Give a reason for each of the following:

- 1. Tropical cyclones cause large scale damage.
- 2. High Pressure exists in Sub tropical belt

d) On 25th October 2024 A Cyclone Dana struck Odisha and West Bengal, causing severe damage with heavy rain and 110 kmph winds. Over 8 lakh people were evacuated, 385 rescue teams deployed, and flight operations suspended.

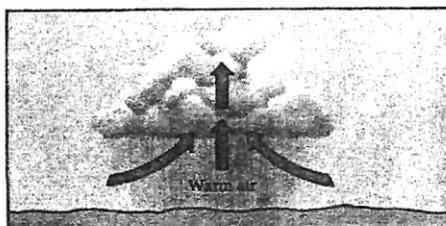
- i. What are Cyclones? [3]
- ii. Mention any two differences between Tropical Cyclones and Temperate Cyclones.

Q 10) a) i. What is meant by precipitation? [2]

ii. Name two forms of Condensation.

b) What is Humidity. State two types of Humidity. [2]

c) Study the picture given below and answer the questions that follow:



- i. Name the type of rainfall. [3]
- ii. Mention any two characteristics features of the above-mentioned rainfall.

d) Give a reason for each of the following: [3]

- i. Cyclonic rainfall is also called Frontal rainfall.
- ii. Western Rajasthan receives very less rainfall.
- iii. The convectional rainfall occurs mainly near the equator



Q 11) a) Himachal Pradesh experiences the worst flash floods, landslides and washing down of fertile land during the current monsoon season, forcing the State Council of ministers to expand its green cover to prevent soil erosion and excessive runoff. 'MUKYA MANTRI VAN VISTAAR YOJANA' would be launched to expand the green cover on the barren hills of the mountain with the motive to prevent excessive runoff on the degraded and refractory hill slopes. [2]

- i. What are the various sources of soil pollution?
- ii. State any two effects of soil pollution on the environment.

b) How does burning of garbage effects environment? [2]

c) With reference to the sources of water pollutants answer the following questions: [3]

- i. Why is it harmful to dispose of household detergents in water bodies?
- ii. In what way does the industrial waste pollute water?
- iii. How do the radioactive wastes get into the water bodies?

d) With reference to noise pollution, answer the following: [3]

- i. How does traffic contribute to noise pollution?
- ii. Why are the construction sites considered as worse than factories in their contribution to noise pollution?
- iii. Of all the different types of pollution, noise pollution is the subtlest but with many harmful effects. Do you agree with this statement? Give reasons to support your answer.

Q 12) a) The Government of India has implemented the National Programme for Organic Production (NPOP) in the year 2001. The national programme involves the accreditation programme for certification agencies, norms for organic production, promotion of organic farming etc. States like; Uttaranchal, Karnataka, Madhya Pradesh, Maharashtra, Gujarat, Rajasthan, Tamil Nadu, Kerala, Nagaland, Mizoram, Sikkim have been promoting organic farming.

(Source: APEDA: 2013-14)

- i. State why is Organic Farming gaining popularity in recent times. [2]
- ii. What are the main characteristics of Organic Farming?

b) State any two measures to save energy. [2]

c) ~~What are the various sources of soil pollution?~~ What is car pooling? [3]

~~State any two ill effects of soil pollution on environment and humans.~~ benefits of car pooling [3]

d) Give reason for the following: [3]

- i. Doctors' advice against exposing the human body to X-rays.
- ii. Household detergents, fertilizers from agricultural field affects the aquatic life.
- iii. Taj Mahal is getting corroded.