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Prep Series Part - 1

50 QUESTIONS

GEOGRAPHY & ENV.

- The monsoons are experienced in the tropical area roughly between 20°N and 20°S. To understand the mechanism of the monsoons, among which of the following facts are important?
 - The Tibetan plateau gets intensely heated during summer, which results in strong vertical air currents and the formation of high pressure over the plateau at about 9 km above sea level.
 - The movement of the westerly jet stream to the north of the Himalayas and the presence of the tropical easterly jet stream over the Indian peninsula during summer.
 - The presence of the low pressure area, east of Madagascar, approximately at 20 degree S over the Indian Ocean.
 - Only a, b
- The study of seismic waves provides a complete picture of the layered interior of the earth. Consider the following statements related to it.
 - P-waves move faster and are the first to arrive at the surface.
 - These are also called 'secondary waves'.
 - The P-waves are similar to sound waves.
 - They travel through gaseous, liquid and solid materials.

Which of the statements given above is/are correct?

 - 1, 2 and 3 only
 - 2, 3 and 4 only
 - 1, 3 and 4 only
 - 1, 2, 3 and 4
- Consider the following statements.
 - The peninsular region does not have a well-defined cold season.
 - There is hardly any noticeable seasonal change in temperature pattern during winters due to nearness of the Equator.

Select the correct code

 - If both A and R are correct and R correctly explain A
 - If both A and R are correct and R does not explain A
 - If only A is correct
 - If only R is correct
- Which of the following statements about volcano are correct?
 - A volcano is a place where gases, ashes and/or molten rock material - lava - escape to the ground.
 - A volcano is called an active volcano if the



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materials mentioned are being released or have been released out in the recent past.

3. The material in the upper mantle portion is called lava.
4. Once it starts moving towards the crust or it reaches the surface, it is referred to as magma.

Select the correct code

- (a) 1 and 2 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

5. Consider the following statements.

1. High pressure is associated with cloudy skies and wet weather.
2. Low pressure is associated with clear and sunny skies.
3. The air always moves from high pressure areas to low pressure areas.

Which of the statements given above is/are incorrect?

- (a) 1 only (b) 2 and 3 only
(c) 1 and 2 only (d) Neither 1 nor 2 nor 3

6. Which of the following statements is/are correct about Eco-Mark?

- (a) It is the mark that is attached on a product which is available in our daily lives as well as certified as contributing to environmental preservation in terms of less environmental burden.
- (b) It is also aimed for the producers to make an environmental - friendly product choice, and also to consider the relation of life and environment.

- (c) Both are correct
(d) Both are incorrect

7. Consider the following statements.

1. The Moist deciduous forests are more pronounced in the regions which record rainfall between 100-200 cm.
2. These forests are found in the north-eastern states along the foothills of Himalayas, eastern slopes of the Western Ghats and Orissa.
3. Hurra, mahua, amla, semul, kusum, sandalwood are some of the species of

these moist deciduous forests.

4. Tussocky grass grows upto a height of 2 m as the under growth in this type of forest.

Which of the statements given above are correct?

- (a) 1, 2 and 3 only (b) 2 and 3 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

8. Identify the correct statement(s) from the following.

- (a) According to Central Pollution Control Board (CPCB), particulate size 2.5 micrometers or less in diameter (PM 2.5) are responsible for causing the greatest harm to human health.

- (b) These fine particulates can be inhaled deep into the lungs and can cause breathing and respiratory symptoms, irritation, inflammations and damage to the lungs and premature deaths.

- (c) Both are correct
(d) Both are incorrect

9. Consider the following statements.

1. It lies mostly in the Southern Hemisphere.
2. The Andes, world's longest mountain range, runs through its length from north to south.
3. It has the world's largest river, the Amazon.

Which of the following continents possess the above characteristics?

- (a) North America (b) South America
(c) Australia (d) Africa

10. Consider the following statements.

1. It consists of calcium, aluminium, magnesium, iron and silica.
2. It forms 10 per cent of the earth's crust.
3. It is commonly found in meteorites.
4. It is in green or black colour.

Which of the following type of minerals possess the above characteristics?

- (a) Quartz (b) Amphibole
(c) Pyroxene (c) Feldspar

11. Shifting cultivation is known by different names in different parts of the world. Correctly match



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the following.

List I

- A. Jhumming
- B. Milpa
- C. Roca
- D. Ladang

List II

- 1. NE India
- 2. Mexico
- 3. Brazil
- 4. Malaysia

Codes: -

- (a) A-1 B-2 C-4 D-3
- (b) A-2 B-1 C-4 D-3
- (c) A-1 B-2 C-3 D-4
- (d) A-2 B-1 C-3 D-4

12. Which of the following statements is/are true?

1. The enclosed seas in the low latitudes record relatively low temperature than the open seas.
2. The enclosed seas in the high latitudes have high temperature than the open seas.

Select the correct code

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

13. Identify the incorrect statement from the following.

- (a) Indira Gandhi Canal, previously known as the Sindh Canal, is one of the largest canal systems in India.
- (b) Conceived by Kanwar Sain, the canal project was launched during 1958.
- (c) The canal originates at Harike barrage in Punjab.
- (d) Neither a nor b nor c

14. Consider the following statements.

- A. The number of trophic levels in the grazing food chain is restricted.
- R. The transfer of energy follows 10 per cent law – only 10 per cent of the energy is transferred to each trophic level from the lower trophic level.

Select the correct code

- (a) If both A and R are correct and R correctly explain A.
- (b) If both A and R are correct and R does not explain A.
- (c) If only A is correct.
- (d) If only R is correct.

15. Identify the correct statement(s).

- (a) Domestic sewage, the most common source of pollution of water bodies, reduces dissolved oxygen but increases biochemical oxygen demand of receiving water.
- (b) Domestic sewage is poor in nutrients, especially, nitrogen and phosphorus.
- (c) Both are correct
- (d) Both are incorrect

16. Consider the following statement about the plants of water hyacinth.

1. The plants of water hyacinth (*Eichhornia crassipes*) are the world's most problematic aquatic weed.
2. It is also called 'Terror of Assam'.
3. They grow abundantly in eutrophic water bodies, and lead to an imbalance in the ecosystem dynamics of the water body.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3
- (d) All 1, 2 and 3

17. Haryali is a -

- (a) Watershed development project sponsored by the Central Government which aims at enabling the rural population to conserve water for drinking, irrigation, fisheries and afforestation.
- (b) Welfare programme launched by the Central Government for the tribal people of the country.
- (c) Welfare programme of the Haryana Government for afforestation.
- (d) Neither a nor b nor c

18. Tropical cyclones are known by different names in different parts of the World. Which of the following pairs are correct?

- 1. Cyclones : in the Indian Ocean
- 2. Typhoons : in the Atlantic
- 3. Hurricanes : in the Western Pacific and South China
- 4. Willy-willies : in the Western Australia

Select the correct code



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- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1 and 4 only (d) 1, 2, 3 and 4
19. Identify the true statement(s) from the following.
- Stalagmites hang as icicles of different diameters. Normally they are broad at their bases and taper towards the free ends showing up in a variety of forms.
 - Stalactites rise up from the floor of the caves. In fact, it forms due to dripping water from the surface.
 - The stalagmite and stalactites eventually fuse to give rise to columns and pillars of different diameters.
 - All a, b, c
20. Which of the following type of rainfall is very common in the equatorial regions and interior parts of the continents?
- Convictional Rainfall
 - Orographic Rainfall
 - Frontal Rainfall
 - Both a and c
21. The factors which affect the distribution of temperature of ocean water are:
- Latitude
 - Unequal distribution of land
 - Local wind
 - Ocean currents
- Select the correct code
- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 2 and 4 only (d) 1, 2, 3 and 4
22. Consider the following statements.
- Nitrogen cycle, which has its reservoir in the form of nitrogen gas (N₂) constitute about 87% of the atmosphere.
 - Nutrients like carbon, nitrogen, sulphur, oxygen; hydrogen, phosphorus etc. move in circular paths through biotic and abiotic components and are known as biogeochemical cycles.
- Which of the statements given above is/are correct?
- (a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2

23. The photic zone, also called the euphotic or limnetic zone, is the volume of water where the rate of photosynthesis is greater than the rate of respiration by phytoplankton. Consider the following statements related to it.
- Phytoplankton is microscopic plants living suspended in the water column that have little or no means of motility.
 - They are primary producers that use solar energy as a food source.
 - The compensation point, where photosynthesis equals respiration, defines the upper limit of the photic zone.
- Which of the statements given above is/are incorrect?
- (a) 1 and 2 only (b) 2 and 3 only
(c) 3 only (d) Neither 1 nor 2 nor 3
24. Commensalism is-
- The interaction where one species is harmed whereas the other is unaffected.
 - The interaction where one species is benefitted and the other is neither benefitted nor harmed.
 - The interaction where only one species benefits and the interaction is detrimental to the other species.
 - Neither a nor b nor c
25. The Amazon River basin drains portions of -
- Brazil
 - Bolivia
 - Ecuador
 - Columbia
- Select the correct code
- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4
26. Identify the tributaries of Brahmaputra from the following -
- Subansiri
 - Tista
 - The Sankosh
 - The Champamati
- Select the correct code
- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1 and 2 only (d) 1, 2, 3 and 4
27. Which of the following statements is/are correct?
- The rate of change of pressure with



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respect to distance is the pressure gradient.

2. The pressure gradient is strong where the isobars are close to each other and is weak where the isobars are apart.

Select the correct code

- (a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2

28. Tropical rainforest is found in which of the following regions of India?

1. Western Ghats
2. The island groups
3. North-western part of the country
4. Upper parts of Assam and Tamil Nadu coast

Select the correct code

- (a) 1, 2 and 3 only (b) 2 and 4 only
(c) 1, 2 and 4 only (d) 1, 2, 3 and 4

29. Which of the following is the characteristic feature of the Himalayas?

1. The Himalaya mountain range is the highest on earth and is often referred to as the "roof of the world".
2. The Himalayas represent the loftiest and one of the most rugged mountain barriers in the world.
3. The great Himalayas are also known as the young fold mountains.
4. There are three parallel ranges in its longitudinal extent (i.e. The Great or Inner Himalayas or Himadri, The Lesser Himalaya or Himachal and The Shiwaliks).

Select the correct code

- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

30. Consider the following statements.

1. "Seaweed" is the common name for countless species of marine plants and algae that grow in the ocean as well as in rivers, lakes, and other water bodies.
2. They are rich in carotenoids (an antioxidant, age-defying substances).
3. Are now known to help in preventing

cancer (including breast cancer in woman), heart disease and strokes.

4. Seaweeds are important as food for humans, feed for animals and fertilizers for plants.

Which of the statements given above are correct?

- (a) 1 and 2 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

31. Identify the correct statement(s).

- (a) Organic farming is a way of farming, which excludes the use of chemical fertilisers, insecticides, etc.
- (b) It is primarily based on the principles of use of natural organic inputs and biological plant protection measures.
- (c) The purpose of organic farming is not to go back to primitive form of indigenous knowledge and skills using the vast potential of various kinds of residues and water.
- (d) All a, b, c

32. Consider the following statements about Algae.

1. All the algae have chlorophyll so they are autotrophic; they make their own food by photosynthesis.
2. Cell wall is made up of Chitin instead of cellulose.
3. Their reserved food material is starch.
4. Algae have a wide variety from unicellular algae, e.g. chlamydomonas and spirogyra to multicellular large seaweeds like sargassum.

Which of the statements given above are correct?

- (a) 1 and 2 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

33. NH (National Highways) 4 in India runs between-

1. Thane
2. Pune
3. Bangalore
4. Chennai

Select the correct code

- (a) 1 and 2 (b) 2 and 3
(c) 1 and 4 (d) 2 and 4



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34. Consider the following statements.
- A. The Northern Plains and Kerala in the south have high to very high population densities.
- R. These regions are known for rugged plains but abundant rainfall.

Select the correct code

- (a) If both A and R are correct and R correctly explain A
- (b) If both A and R are correct and R does not explain A
- (c) If only A is correct
- (d) If only R is correct

35. Which among the following methods can be useful for the conservation of soil?

1. Contour ploughing 2. Terrace farming
3. Strip cropping 4. Shelter belts

Select the correct code

- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4
36. Aw type of climate is found in which regions of India according to Koppen?
- (a) Most of the Peninsular plateaus, south of the Tropic of Cancer
- (b) West coast of India south of Goa
- (c) Coromandel coast of Tamil Nadu
- (d) Extreme western Rajasthan

37. The amount and the intensity of insolation vary during a day, in a season and in a year. The factors that cause these variations in insolation are:

1. The rotation of earth on its axis
2. The angle of inclination of the sun's rays
3. The length of the day
4. The transparency of the atmosphere
5. The configuration of land in terms of its aspect

Select the correct code

- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 3 and 5 only (d) 1, 2, 3, 4 and 5
38. Consider the following statements.
1. The food web is defined as a collection of food chains which are interconnected at multiple trophic levels.

2. They form many feeding connections in the different organisms of biotic community.
3. The food web is modified by the taste and food habits of organisms.

Which of the statements given above is/are correct?

- (a) 1 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3

39. Intended Nationally Determined Contributions (INDCs) was in news in the recent past. Consider the following statements related to it.

1. INDCs pair national policy setting in which countries determine their contributions in the context of their national priorities, circumstances and capabilities with a global framework under the Paris Agreement that drives collective action toward a zero-carbon, climate-resilient future.
2. The INDCs create a constructive feedback loop between national and international decision-making on climate change.
3. INDCs are the voluntary means for governments to communicate internationally the steps they will take to address climate change in their own countries.
4. INDCs reflect each country's ambition for reducing emissions, taking into account its domestic circumstances and capabilities.

Which of the statements given above are correct?

- (a) 1, 2 and 3 only (b) 2 and 4 only
(c) 1, 2 and 4 only (d) All 1, 2, 3 and 4

40. Consider the following statements about coral reefs.

1. Corals are found all over the world's oceans, from the Aleutian Islands off the coast of Alaska to warm tropical waters of the Caribbean Sea.
2. The biggest coral reefs are found in the saline, deep ocean waters of the tropics and subtropics where they grow quickly.
3. The largest of these coral reef systems, the Great Barrier Reef of Australia is spread in number of kilometres.



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Which of the statements given above is/are incorrect?

- (a) 1 only (b) 2 only
(c) 1 and 3 only (d) All 1, 2 and 3

41. Consider the following statements.

1. Mica is mainly used in the electrical and electronic industries.
2. Mica in India is produced in Jharkhand, Andhra Pradesh and Rajasthan etc.
3. In Tamil Nadu, Nellore district produces the best quality mica.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only (b) 3 only
(c) 1 and 3 only (d) Neither 1 nor 2 nor 3

42. Some Famous Local Storms of Hot Weather Season are given below. Identify which of the following pairs are correct?

List I		List II
1. Mango Shower	:	Coastal areas of Karnataka
2. Blossom Shower	:	Kerala and nearby areas
3. Nor Westers	:	Assam
4. Bardoli Chheerha	:	Bengal

Select the correct code

- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 1, 3 and 4 only (d) 1, 2, 3 and 4

43. Consider the following statement(s)

- A. Owing to the nature of monsoons, the annual rainfall is highly variable from year to year.
- R. Variability is high in the regions of low rainfall such as parts of Rajasthan, Gujarat and the leeward side of the Western Ghats.

Select the correct code

- (a) If both A and R are correct and R correctly explain A
(b) If both A and R are correct and R does not explain A
(c) If only A is correct
(d) If only R is correct

44. Consider the following statement.

1. They are smooth oval shaped ridge-like features composed mainly of glacial till with

some masses of gravel and sand.

2. The long axes of them are parallel to the direction of ice movement.
3. One end of them facing the glacier called the stoss end is blunter and steeper than the other end called tail.

Which of the following type of landform possess the above characteristics?

- (a) Drumlins (b) Playas
(c) Eskers (d) Stacks

45. Which of the following are correctly paired?

List I List II

1. Rock fall: is slipping of one or several units of rock debris with a backward rotation with respect to the slope over which the movement takes place.
2. Debris fall: is nearly a free fall of earth debris from a vertical or overhanging face.
3. Slides: occur as planar failures along discontinuities like bedding planes that dip steeply.
4. Slump: is free falling of rock blocks over any steep slope keeping itself away from the slope.

Select the correct code

- (a) 1, 2 and 3 only (b) 2, 3 and 4 only
(c) 2 and 3 only (d) 1, 2, 3 and 4

46. Consider the following statements about ozone.

1. It is found in the upper part of the atmosphere called the stratosphere, and it acts as a shield absorbing ultraviolet radiation (UV) from the sun.
2. UV rays are highly injurious to living organisms since DNA and proteins of living organisms preferentially absorb UV rays, and its high energy breaks the chemical bonds within these molecules.
3. The thickness of the ozone in a column of air from the ground to the top of the atmosphere is measured in terms of Thermal units (DU).

Which of the statements given above is/are correct?

- (a) 1 only (b) 2 and 3 only



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- (c) 1 and 2 only (d) All 1, 2 and 3
47. Identify the correct statement(s) from the following.
- (a) The National Mission for Green India (GIM) is one of the eight Missions outlined under the National Action Plan on Climate Change (NAPCC).
- (b) It aims at protecting; restoring and enhancing India's diminishing forest cover and responding to climate change by a combination of adaptation and mitigation measures.
- (c) It envisages a holistic view of greening and focuses on multiple ecosystem services, especially, biodiversity, water, biomass, preserving mangroves, wetlands, critical habitats etc. along with carbon sequestration as a co-benefit.
- (d) All a, b, c
48. Identify the incorrect statement from the following.
- (a) An estuary is a partially enclosed, coastal water body where freshwater from rivers and streams mixes with salt water from the ocean.
- (b) Estuaries, and their surrounding lands, are places of transition from land to sea.
- (c) Estuarine environments are among the least productive on earth, creating less

organic matter each year than comparably-sized areas of forest, grassland or agricultural land.

- (d) Neither a nor b nor c
49. Consider the following statements about Nuclear fallout.
1. Nuclear fallout is the particles of matter in the air made radioactive from a nuclear explosion.
 2. The rate of fallout largely depends on the magnitude of the explosion and to a lesser extent the altitude of the nuclear explosion.
 3. Weather conditions can affect fallout immensely.
- Which of the statements given above is/are correct?
- (a) 1 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3
50. Earthquake waves get recorded in seismographs located at far off locations. However, there exist some specific areas where the waves are not reported. Such a zone is called the 'shadow zone'. Which of the following comes under 'shadow zone'?
- (a) Between 105° and 145°
(b) Between 100° and 145°
(c) Between 110° and 155°
(d) Neither a nor b nor c

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