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Our larger vision is to help aspirants become **smart learners** who can analyse a syllabus, manage their time, identify priorities and prepare with confidence. We believe these skills extend beyond NDA and remain valuable throughout their academic and professional journey.

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KOLHAPUR

2026 APRIL**I. Geomorphology (Rocks, Earth Structure, Volcanoes, Earthquakes & Weathering)****Q.104****Consider the following statements regarding the Earth's crust:**

1. The continental crust is thinner under fold mountains.
2. The mean thickness of the oceanic crust is 30 km.
3. The Earth's crust is brittle in nature.

Which of the statements given above is/are correct?

- (A) 1 only
(B) 1 and 2 only
(C) 3 only
(D) 1, 2 and 3

Q.103**Consider the following statements:**

1. Earthquake waves are basically of two types, namely body waves and surface waves.
2. The body waves interact with the surface rocks and generate surface waves.

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

Q.114**Consider the following statements regarding the hypocentre:**

1. It is the point where the energy is released and is called the focus of an earthquake.
2. It is the point where the earthquake starts and may be many kilometres deep within the Earth.

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

Q.113**Consider the following statements:**

1. In a seismograph, P-waves are recorded earlier than S-waves.
2. In P-waves, the individual particles vibrate to and fro in the direction of wave propagation, whereas in S-waves, the particles vibrate at right angles to the direction of wave propagation.

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

- (A) Pegmatite
(B) Limestone
(C) Sandstone
(D) Shale

Q.118

Mount Ibu, which recently erupted in Indonesia, is a:

- (A) Shield volcano
(B) Composite volcano
(C) Volcanic dome
(D) Cinder cone

Q.106

Loose sediments are transformed into sedimentary rocks by the process of:

- (A) Lithification
(B) Weathering
(C) Mass wasting
(D) Solifluction

Q.105

Which of the following are associated with composite volcanoes?

1. They result in explosive eruptions.
2. They eject pyroclastic material.
3. Pyroclastic material and ash accumulate near the vent, forming layers.

Select the correct answer using the code given below.

- (A) 1 and 2 only
(B) 2 and 3 only
(C) 1 and 3 only
(D) 1, 2 and 3

Q.111

Consider the following pairs:

Type of chemical weathering	Characteristic
1. Solution	Results in leaching of minerals
2. Carbonation	Helps in breaking down feldspar
3. Hydration	Causes an increase in the volume of rocks
4. Oxidation	Changes the colour of rocks

How many of the pairs given above are correctly matched?

Q.112

Quartzite is metamorphosed from which one of the following rocks?

- (A) One
(B) Two
(C) Three
(D) All four

- (C) Santa Ana Wind
(D) Jarbo Gap Wind

II. Climatology

Q.120

Consider the following pairs:

Layer of atmosphere	Characteristic
1. Troposphere	Absorbs ultraviolet radiation
2. Stratosphere	Changes in weather and climate
3. Mesosphere	Reflects radio waves back to the Earth

How many of the pairs given above are correctly matched?

- (A) None
(B) One
(C) Two
(D) All three

Q.108

Consider the following statements regarding extratropical cyclones:

1. They usually develop in the mid and high latitudes.
2. They affect a much larger area as compared to tropical cyclones.
3. They move from east to west.

Which of the statements given above are correct?

- (A) 1 and 2 only
(B) 2 and 3 only
(C) 1 and 3 only
(D) 1, 2 and 3

Q.107

Consider the following statements about temperature inversion:

1. This happens when the normal lapse rate gets inverted.
2. Winter nights with cloudy skies are conducive to temperature inversion.
3. Polar areas experience inversion throughout the year.

Which of the statements given above are correct?

- (A) 1 and 2 only
(B) 2 and 3 only

Q.116

Which one of the following winds is responsible for wildfires in Southern California?

- (A) Diablo Wind
(B) Chinook Wind

(C) 1 and 3 only

(D) 1, 2 and 3

Q.109

Which one of the following receives an average annual rainfall of below 50 cm in India, indicating the highest inadequacy?

(A) Madhya Pradesh

(B) Haryana

(C) Ladakh

(D) Jharkhand

III. Indian Geography (Agriculture, Resources & Transport)

Q.110

As per the land-use categories in the Indian Land Revenue Records, cultivable land which is left uncultivated for more than one year but less than five years is called:

(A) Current fallow

(B) Fallow other than current fallow

(C) Barren land

(D) Cultivable waste land

Q.102

Consider the following statements about Kamarajar Port:

1. It is an example of a corporatized public company.
2. It was earlier known as Ennore Port.

3. It is a natural port.

Which of the statements given above are correct?

(A) 1 and 2 only

(B) 2 and 3 only

(C) 1 and 3 only

(D) 1, 2 and 3

Q.101

Which one of the following is *not* a strategy under the Rainfed Area Development (RAD) Scheme of India?

(A) Diversified farming

(B) Soil health management

(C) Adoption of cluster-based approaches

(D) Optimizing canal irrigation

IV. World Geography

Q.119

Consider the following statements about terrestrial planets:

1. Mercury, Venus, Earth and Mars are terrestrial planets having low densities as compared to the other planets.
2. They lie between the Sun and the asteroid belt.
3. Their lower gravity can hold the escaping gases.

Which of the statements given above is/are correct?

- (A) 1 and 2
(B) 2 and 3
(C) 1 and 3
(D) 2 and 3

V. Mapping & Locations

Q.117

Which one of the following is *not* a pass of Arunachal Pradesh?

- (A) Kumjong Pass
(B) Yonggyap Pass
(C) Muling La
(D) Bomdila

VI. Economic Geography / Mineral Resources

Q.115

Consider the following critical minerals:

1. Neodymium
2. Tellurium
3. Dysprosium
4. Gallium

Which of the above minerals are **not** used for the production of photovoltaic cells used in solar panels?

- (A) 1 and 4
(B) 2 and 3
(C) 1 and 3
(D) 2 and 4

September 2025

I. Geomorphology

Q.112

Consider the following statements with reference to feldspar mineral:

1. Half of the Earth's crust is composed of feldspar.
2. It has a light cream to salmon pink colour.
3. Magnesium is a common element in all types of feldspar.

Which of the statements given above is/are correct?

- (A) 1 only
(B) 1 and 2 only
(C) 2 and 3 only
(D) 1, 2 and 3

Q.113

Consider the following pairs with reference to sedimentary rocks and the process of their formation:

Sedimentary Rock	Process of Formation
1. Chert	Chemically formed
2. Geyserite	Organically formed
3. Shale	Mechanically formed

Which of the pairs given above is/are correctly matched?

- (A) 1 only
 - (B) 1 and 2 only
 - (C) 2 and 3 only
 - (D) 1, 2 and 3
-

Q.114

Which of the following statements is/are correct?

1. Oceanic trenches are very significant in the study of plate movement.
2. Oceanic trenches are associated with active volcanoes and strong earthquakes.

Select the correct answer using the code given below.

- (A) 1 only
 - (B) 2 only
 - (C) Both 1 and 2
 - (D) Neither 1 nor 2
-

Q.115

Which of the following statements with reference to shadow zones during an earthquake is/are correct?

1. The zone between **105° and 145°** from the epicentre is identified as the shadow zone for both P-waves and S-waves.
2. The shadow zone of P-waves is much larger than that of S-waves.

Select the correct answer using the code given below.

- (A) 1 only
 - (B) 2 only
 - (C) Both 1 and 2
 - (D) Neither 1 nor 2
-

Q.116

Which one of the following volcanic island chains is *not* associated with a mid-oceanic ridge?

- (A) Azores Islands
 - (B) Ascension Island
 - (C) Hawaiian Islands
 - (D) Tristan da Cunha
-

Q.118

Which of the following statements with reference to soil-forming processes is/are correct?

1. Translocation, enrichment, removal and transformation are different classes of soil-forming processes.
2. In translocation, fine particles are transported downward by eluviation and accumulate in lower horizons through illuviation.

Select the correct answer using the code given below.

- (A) 1 only
- (B) 2 only
- (C) Both 1 and 2
- (D) Neither 1 nor 2

II. Climatology

Q.111

Arrange the following zones in ascending order in terms of their latitudinal extent on the Earth's surface:

1. Equatorial Zone
2. Mid-Latitude Zone
3. Sub-Arctic Zone
4. Tropical Zone

Select the correct answer using the code given below.

- (A) 1, 3, 2, 4
(B) 1, 3, 4, 2
(C) 1, 4, 2, 3
(D) 3, 1, 2, 4

Q.119

Consider the following statements with reference to the structure of the Earth's atmosphere:

1. The thickness of the troposphere is greater at the equator.
2. The air temperature of the tropopause is highest above the poles.
3. The temperature in the troposphere decreases at a rate of **1°F for every 165 metres** of height.

Which of the statements given above is/are correct?

- (A) 1 only
(B) 1 and 2 only
(C) 2 and 3 only
(D) 1, 2 and 3

Q.120

Which of the following are the factors that cause variation in the amount of insolation received on the Earth?

1. Rotation of the Earth on its axis
2. Length of the day
3. Distribution of land and water on the Earth

Select the correct answer using the code given below.

- (A) 1 only
(B) 1 and 2 only
(C) 2 and 3 only
(D) 1, 2 and 3

Q.121

Consider the following conditions favourable for the formation and intensification of tropical storms:

1. Presence of the Coriolis force
2. Upper-level divergence above the sea-level system
3. High variation in the vertical wind speed

Which of the conditions given above is/are correct?

- (A) 1 only
 - (B) 2 only
 - (C) 1 and 2
 - (D) 2 and 3
-

III. Oceanography

Q.117

Consider the following statements with reference to sea waves:

1. The height of waves is determined by wind speed, wind duration and fetch.
2. The energy of a wave is proportional to the square of its height.
3. Waves retain most of their energy as they travel across the deep ocean.

Which of the statements given above is/are correct?

- (A) 1 only
 - (B) 1 and 2 only
 - (C) 2 and 3 only
 - (D) 1, 2 and 3
-

Q.122

Which of the following factors influence ocean currents?

1. Coriolis force
2. Gravity

3. Heating by solar energy
4. Wind

Select the correct answer using the code given below.

- (A) 1 and 4 only
 - (B) 2 and 3 only
 - (C) 1, 2 and 3 only
 - (D) 1, 2, 3 and 4
-

Q.123

Which of the following are warm ocean currents?

1. Alaska Current
2. Kuroshio Current
3. Falkland Current
4. West Australian Current

Select the correct answer using the code given below.

- (A) 1 only
 - (B) 1 and 2 only
 - (C) 3 and 4 only
 - (D) 4 only
-

IV. Indian Geography (Physical Geography)

Q.124

The State of Assam shares borders with how many other countries and Indian States, respectively?

- (A) 2 countries and 6 Indian States
- (B) 2 countries and 7 Indian States

- (C) 3 countries and 7 Indian States
(D) 3 countries and 6 Indian States
-

Q.125

Which one of the following is the northernmost river basin of the Deccan Plateau?

- (A) Chambal
(B) Mahi
(C) Narmada
(D) Tapi
-

Q.126

Laterite soil in India is rich in which of the following?

1. Calcium
2. Nitrogen
3. Phosphate
4. Potash

Select the correct answer using the code given below.

- (A) 1 only
(B) 1 and 2 only
(C) 3 and 4 only
(D) 4 only
-

V. Indian Geography (Agriculture)

Q.127

Which of the following statements with reference to crops cultivated in India is/are correct?

1. Bajra grows well in sandy and shallow black soils, whereas red and shallow black soils are suited for ragi.
2. Bajra is predominantly grown in Rajasthan, Uttar Pradesh and Maharashtra, while ragi is mainly cultivated in Karnataka, Tamil Nadu and Himachal Pradesh.

Select the correct answer using the code given below.

- (A) 1 only
(B) 2 only
(C) Both 1 and 2
(D) Neither 1 nor 2
-

VI. Indian Geography (Minerals, Energy & Industries)

Q.128

Match List I with List II and select the correct answer using the code given below.

List I (City) List II (Mineral)

- | | |
|-------------|--------------|
| A. Bhandara | 1. Magnesite |
| B. Balaghat | 2. Bauxite |
| C. Bilaspur | 3. Iron Ore |
| D. Bellary | 4. Bauxite |

Codes:

Option A B C D

(A) 3 1 4 2

(B) 3 4 1 2

(C) 2 1 4 3

(D) 2 4 1 3

Q.129

Which one of the following is *not* a beneficiary State of the Vindhyachal Power Plant of NTPC?

- (A)** Gujarat
- (B)** Goa
- (C)** Maharashtra
- (D)** Uttar Pradesh

Q.130

Consider the following pairs with reference to thermal power plants and their locations in the respective States of India:

Thermal Power Plant State

- | | |
|---------------|---------------|
| 1. Panki | Uttar Pradesh |
| 2. Parli | Karnataka |
| 3. Vijayawada | Telangana |

4. Wanakbori

Gujarat

How many pairs given above are correctly matched?

- (A)** One
- (B)** Two
- (C)** Three
- (D)** Four

Q.146

Which one of the following Indian States accounts for the maximum deposits of bauxite and chromite?

- (A)** Andhra Pradesh
- (B)** Madhya Pradesh
- (C)** Jharkhand
- (D)** Odisha

VII. Environment & Ecology

Q.148

Which of the following were added as Ramsar Sites in India in the year 2025?

1. Subkara Kotai Bird Sanctuary
2. Udhwa Lake
3. Rudrasagar Lake
4. Bakhira Wildlife Sanctuary

Select the correct answer using the code given below.

- (A)** 1 and 4 only
- (B)** 2 and 3 only
- (C)** 1 and 2 only
- (D)** 1, 2 and 3

VIII. International Organizations

Q.132

The headquarters of the World Meteorological Organization (WMO) is located in:

- (A) Switzerland
- (B) Scotland
- (C) South Africa
- (D) Italy

April 2025 Geography

I. Geomorphology (Rocks, Weathering, Volcanoes & Earthquakes)

Q.87

Which of the following is the correct ascending order of the given minerals in terms of their presence in the Earth's crust?

- 1. Amphibole
- 2. Mica
- 3. Pyroxene

Select the correct answer using the code given below.

- (A) 2, 3, 1
 - (B) 1, 2, 3
 - (C) 2, 1, 3
 - (D) 1, 3, 2
-

Q.88

Which of the following is/are the applied forces in the mechanical weathering process?

- 1. Gravitational force
- 2. Expansion force
- 3. Force due to water pressure

Select the correct answer using the code given below.

- (A) 1 only
 - (B) 1 and 2 only
 - (C) 2 and 3 only
 - (D) 1, 2 and 3
-

Q.103

Which of the following statements with reference to L-waves (Long Waves) generated by an earthquake is/are correct?

- 1. They follow the Earth's circumference.
- 2. They travel more or less at a constant rate.

Select the correct answer using the code given below.

- (A) 1 only
 - (B) 2 only
 - (C) Both 1 and 2
 - (D) Neither 1 nor 2
-

Q.104

Which one of the following is formed when volcanic ash is carried by

running water and is deposited as a sedimentary layer?

- (A) Basalt
- (B) Lapilli
- (C) Slate
- (D) Tuff

II. Climatology

Q.90

Which one of the following latitudes will experience the minimum angle of the Sun's rays when it is the Summer Solstice in the Northern Hemisphere?

- (A) Arctic Circle
- (B) Equator
- (C) Tropic of Cancer
- (D) Tropic of Capricorn

Q.91

Which of the following statements with reference to the Coriolis force is/are correct?

1. Coriolis force acts perpendicular to the pressure gradient force.
2. At the Equator, the Coriolis force is zero and the wind blows perpendicular to the isobars.

Select the correct answer using the code given below.

- (A) 1 only
- (B) 2 only
- (C) Both 1 and 2
- (D) Neither 1 nor 2

Q.92

Which of the following statements with reference to sleet is/are correct?

1. Sleet is composed of frozen raindrops and refrozen melted snow.
2. It occurs when a layer of air below the freezing point overlies a warm layer near the ground surface.

Select the correct answer using the code given below.

- (A) 1 only
- (B) 2 only
- (C) Both 1 and 2
- (D) Neither 1 nor 2

Q.93

Humid subtropical climate is *not* experienced in which one of the following regions?

- (A) Coastal South Africa
- (B) East Coast of Australia
- (C) South Japan
- (D) South Argentina

III. Oceanography

Q.89

Which of the following are cold ocean currents?

1. Alaska Current
2. North Atlantic Drift

3. West Wind Drift

Select the correct answer using the code given below.

- (A) 1 only
- (B) 1 and 2 only
- (C) 2 and 3 only
- (D) 3 only

IV. Mathematical Geography

Q.86

Consider the following lines of longitude and latitude:

- 1. Prime Meridian
- 2. Tropic of Cancer
- 3. Equator

Which of the above line(s) is/are a great circle?

- (A) 1, 2 and 3
- (B) 1 and 2 only
- (C) 1 and 3 only
- (D) 3 only

V. Indian Physical Geography

Q.94

Mahendragiri, the highest peak of the Eastern Ghats, is located in which one of the following States?

- (A) Andhra Pradesh
- (B) Odisha
- (C) Telangana
- (D) Tamil Nadu

Q.95

Temperate forests of South India, known as Sholas, are found in which of the following hill ranges?

- 1. Anaimalai Hills
- 2. Nilgiri Hills
- 3. Palani Hills

Select the correct answer using the code given below.

- (A) 1 only
- (B) 1 and 2 only
- (C) 2 and 3 only
- (D) 1, 2 and 3

VI. Indian Economic Geography (Minerals, Industries & Transport)

Q.96

As per the *Annual Report 2023-24* of the Ministry of Mines, Government of India, which of the following States are the major producers of copper in the country?

- (A) Rajasthan and Gujarat
- (B) Rajasthan and Madhya Pradesh
- (C) Jharkhand and Rajasthan
- (D) Jharkhand and Madhya Pradesh

Q.97

Which one of the following is *not* a major oilfield located in Gujarat?

- (A) Ankleshwar
(B) Kosamba
(C) Mehsana
(D) Mora
-

Q.100

Consider the following statements with regard to a steel plant:

1. It was set up in 1964 with Russian collaboration.
2. It receives iron ore from the Rourkela region.
3. Water and hydel power are supplied by the Damodar Valley Corporation.

Identify the steel plant on the basis of the above facts.

- (A) Bhilai Steel Plant
(B) Bokaro Steel Plant
(C) Rourkela Steel Plant
(D) Durgapur Steel Plant
-

Q.101

An offshore terminal at Vadinar has been developed to reduce pressure on which of the following major ports in India?

- (A) Kandla Port
(B) Cochin Port
(C) Mormugao Port
(D) New Mangalore Port
-

VII. Environment & Ecology

Q.85

For acid rain, the pH of rainwater should be less than:

- (A) 7.0
(B) 6.6
(C) 5.6
(D) 8.0
-

Q.102

As per the *India State of Forest Report 2021*, which one of the following Himalayan States has the highest percentage of its geographical area under forest cover?

- (A) Arunachal Pradesh
(B) Himachal Pradesh
(C) Sikkim
(D) Uttarakhand
-

September 2024

I. Geomorphology

Q.110

Which one of the following is an example of both an igneous as well as a metamorphic rock?

- (A) Gabbro
(B) Gneiss
(C) Gneissoid
(D) Granite
-

Q.111

Which one of the following statements is correct?

- (A) Pyroxene is commonly found in meteorites.
(B) Amphiboles form about 20% of the Earth's crust.
(C) Quartz is soluble in water.
(D) The word *sedimentary* is derived from the Latin word *sedimentum*.

List I (Tropical Cyclone Name)

List II (Country/Region)

- | | |
|--|----------------|
| A. Hurricane | 1. China |
| B. Willy-Willy | 2. Philippines |
| C. Baguio
(Baguio/Baguio local naming*) | 3. Australia |
| D. Typhoon | 4. USA |

Q.112

Which one of the following processes is *not* a part of chemical weathering?

- (A) Solution
(B) Hydration
(C) Reduction
(D) Thawing

Codes:

Option A B C D

(A) 4 3 2 1

(B) 1 2 3 4

(C) 4 2 3 1

(D) 1 3 2 4

II. Climatology

Q.80

Which one of the following local winds is *not* related to the Mediterranean region?

- (A) Harmattan
(B) Khamsin
(C) Sirocco
(D) Mistral

Q.135

Where is the Coriolis effect the largest?

- (A) At the Equator
(B) At the Tropics of Cancer and Capricorn
(C) At the North Pole
(D) At 45° latitude in each hemisphere

Q.108

Match List I with List II and select the correct answer using the code given below.

Q.136

In which of the following States of India are the Sun's rays never perpendicular?

1. Bihar
2. Chhattisgarh
3. Manipur
4. Rajasthan

Select the correct answer using the code given below.

- (A) 1 and 2
(B) 1 and 3
(C) 2 and 3
(D) 2 and 4

Arid Landforms

Q. 141 (Original Paper No. 141 – September 2024)

The lowest part of most gullies is occupied by a landform called a *playa*. Which category of landform formation does it represent?

- A. Fluvial landform
B. Arid landform
C. Glacial landform

III. Oceanography

Q.81

Which one among the following is a landlocked water body?

- (A) Mediterranean Sea
(B) Black Sea
(C) Red Sea
(D) Caspian Sea

Q.82

Which one of the following statements with reference to the Benguela Current is *not* correct?

- (A) It influences the climate of the west coast of North Africa.
(B) It is a cold current.
(C) Its direction is from south to north.
(D) It flows in the Atlantic Ocean.

IV. Indian Physical Geography

Q.79

Which one of the following statements is *not* correct with reference to the Andaman and Nicobar Islands?

- (A) The climate is humid tropical coastal.
(B) Maximum rainfall occurs between March and April.
(C) The Andaman and Nicobar Islands are separated by the 10° Channel, which is about 150 km wide.
(D) The islands are inhabited by Negrito tribes.

Q.105

Consider the following pairs of Himalayan passes and the mountain ranges in which they are located:

Pass	Mountain Range
1. Zojila	Great Himalaya

2. Banihal Pass Pir Panjal Range

3. Fotu La Ladakh Range

4. Khardung La Karakoram Range

Which of the above pairs is/are correctly matched?

- (A) 2 only
(B) 4 only
(C) 1 and 2 only
(D) 1, 2 and 3

Q.109

Consider the following statements regarding the rivers of the Indus system:

1. The Sutlej originates in Tibet where it is known as Langqên Zangbo (Langchen Khambab).
2. The Sutlej is a classic example of an antecedent river.
3. The Jhelum is the largest tributary of the Indus system.

Select the correct answer using the code given below.

- (A) 2 only
(B) 3 only
(C) 1 and 2 only
(D) 2 and 3 only

Q.137

Which of the following are east-flowing rivers in India?

1. Palar
2. Periyar
3. Pennar
4. Kali Nadi

Select the correct answer using the code given below.

- (A) 1 only
(B) 1 and 3 only
(C) 2 and 4 only
(D) 4 only

Q.138

Which of the following tributaries are correctly matched with their respective rivers?

Tributary River

1. Bhavani Krishna
2. Kabini Kaveri
3. Manjara Godavari
4. Bhima Mahanadi

Select the correct answer using the code given below.

- (A) 1 and 2 only
(B) 2 and 3 only
(C) 1 and 3 only
(D) 3 and 4 only

Q.140

Consider the following statements regarding the River Brahmaputra:

1. It rises in Tibet near Lake Manasarovar.
2. It takes a U-turn near Namcha Barwa and enters India through a gorge.

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

V. Indian Geography (Soils)

Q.78

Any land that is left fallow for more than five years is termed as:

- (A) Current fallow
(B) Fallow other than current fallow
(C) Culturable wasteland
(D) Barren and wasteland

Q.106

Which one of the following statements with reference to the Black Cotton Soil of India is *not* correct?

- (A) Black cotton soils are also called Regur soils.
(B) They are highly moisture retentive.

- (C) They are rich in lime.
(D) These soils have less clay content and hence can support a wide variety of crops and vegetables.

Q.139

Which one of the following is found in appreciable amounts in Laterite soil in India?

- (A) Calcium
(B) Phosphate
(C) Potash
(D) Nitrogen

VI. Indian Economic Geography (Power)

Q.107

Match List I with List II and select the correct answer using the code given below. Codes:

Option A B C D

(A) 4 3 2 1

(B) 4 2 3 1

(C) 1 2 3 4

(D) 1 3 2 4

April 2024 Geography

I. Geomorphology (Earth Structure & Earthquakes)

List I (Hydroelectric Power Plant) List II (State)

A. Doyang	1. Arunachal Pradesh
B. Gomati	2. Assam
C. Kapili	3. Tripura
D. Ranganadi	4. Nagaland

Q.109

Which of the following statements regarding earthquakes is/are correct?

1. The point on the Earth's surface directly above the focus is called the epicentre of the earthquake.
2. Earthquakes generate primary (P) and secondary (S) waves that radiate outward from the earthquake focus.
3. Deep-focus earthquakes are likely to cause more damage than shallow-focus earthquakes.

Select the correct answer using the code given below.

- (A) 1 only
(B) 1 and 2 only
(C) 2 and 3 only
(D) 1, 2 and 3

Q.115

Which of the following statements regarding the Earth's internal structure is/are correct?

1. Oceanic crust is heavier than the continental crust.
2. Most of the Earth's internal heat is contained within the mantle.
3. Large convective cells in the mantle circulate heat and drive plate tectonic processes.

Select the correct answer using the code given below.

- (A) 3 only
(B) 1 and 2 only
(C) 2 and 3 only
(D) 1, 2 and 3

II. Climatology

Q.110

Which of the following statements regarding air temperature is/are correct?

1. Air temperature is measured at a standard height of **1.2 metres (4 feet)** above the ground surface.
2. The average rate at which temperature decreases with height is termed the **Environmental Lapse Rate (ELR)**.

Select the correct answer using the code given below.

- (A) 1 only
(B) 2 only
(C) Both 1 and 2
(D) Neither 1 nor 2
-

Q.111

Which of the following statements regarding humidity is/are correct?

1. Relative humidity is the ratio between the actual amount of water vapour present in the atmosphere and the maximum amount it can hold at a given temperature.
2. When the relative humidity is high, more water evaporates from the skin.
3. The higher the air temperature, the lower the relative humidity of the air (assuming moisture content remains the same).

Select the correct answer using the code given below.

- (A) 1 only
(B) 2 and 3 only
(C) 1 and 3 only
(D) 1, 2 and 3
-

Q.112

Which of the following statements regarding cyclones and anticyclones is/are correct?

1. In the Northern Hemisphere, cyclones rotate counterclockwise and anticyclones rotate clockwise.
2. Cyclones are often associated with cloudy or rainy weather, whereas anticyclones are generally associated with fair weather.
3. In the Southern Hemisphere, cyclones rotate clockwise because the Coriolis force acts to the left.

Select the correct answer using the code given below.

- (A) 1 only
(B) 1 and 2 only
(C) 2 and 3 only
(D) 1, 2 and 3
-

Q.117

Which of the following statements regarding world climate types and their relation with the Intertropical Convergence Zone (ITCZ) is/are correct?

1. Tropical Wet Climate is one of the rainiest climates in the world due to the dominance of the ITCZ.
2. Tropical Savanna Climate experiences distinct wet and dry seasons mainly because of the seasonal shift of the ITCZ and the subtropical high-pressure belts.
3. Tropical Monsoon Climate experiences heavy rainfall as a

consequence of the nearness of the ITCZ for much of the year.

Select the correct answer using the code given below.

- (A) 1 only
- (B) 1 and 2 only
- (C) 2 and 3 only
- (D) 1, 2 and 3

Q.118

Which of the following statements regarding tropical cyclones is/are correct?

1. Tropical cyclones develop during summer and autumn in every tropical ocean except the South Atlantic and the eastern South Pacific Ocean.
2. Tropical cyclones occurring in the North Atlantic and eastern North Pacific Oceans are known as typhoons.
3. Tropical cyclones occurring in the Indian Ocean and South Pacific Ocean are called cyclones.

Select the correct answer using the code given below.

- (A) 3 only
- (B) 1 and 2 only
- (C) 1 and 3 only
- (D) 1, 2 and 3

III. Oceanography

Q.108

Which of the following statements regarding neap tides is/are correct?

1. Neap tides occur every 14 or 15 days and coincide with the first and third quarters of the Moon.
2. Neap tides have a small tidal range because the gravitational forces of the Moon and the Sun act at right angles (quadrature).

Select the correct answer using the code given below.

- (A) 1 only
- (B) 2 only
- (C) Both 1 and 2
- (D) Neither 1 nor 2

IV. Indian Physical Geography

Q.116

Which of the following statements regarding the given rivers is/are correct?

1. The Brahmaputra enters India under the name **Dihang**.
2. The Godavari has the second-largest river basin, covering about 10% of the geographical area of India.
3. Chambal and Betwa are important tributaries of the Ganga and join it directly in Uttar Pradesh.

Select the correct answer using the code given below.

- (A) 1 only
 - (B) 1 and 2 only
 - (C) 2 and 3 only
 - (D) 1, 2 and 3
-

V. Indian Economic Geography (Ports & Industries)

Q.113

Identify the seaport in India on the basis of the following characteristics:

1. It is a more than century-old port on the west coast of India.
2. It is a natural harbour protected by backwaters and also by a mole.
3. A deep draft channel of about **14 metres** permits large vessels to enter the harbour.

Select the correct seaport from the options given below.

- (A) Mormugao Port
 - (B) Deendayal Port
 - (C) Cochin Port
 - (D) Jawaharlal Nehru Port
-

Q.114

Identify the iron and steel plant on the basis of the following characteristics:

1. It receives coal from Jharia and iron ore from Sundargarh and Kendujhar.
2. Power for the electric furnaces is supplied from Hirakud.

3. Water is obtained from the Koel and Sankh Rivers.

Select the correct iron and steel plant from the options given below.

- (A) Bhilai Steel Plant
- (B) Durgapur Steel Plant
- (C) Rourkela Steel Plant
- (D) Bokaro Steel Plant