



**CCDC- UPSC COACHING CENTER**  
**SAURASHTRA UNIVERSITY CAMPUS**  
**RAJKOT- 360 005**

**Exam: - Geography**  
**Total Marks: 200**

**Syllabus: - XI NCERT Physical & Indian**  
**Negative Marks: - 0.66**

**Date: - 20-Dec- 2021**  
**Paper Code: Geo2106**

**1. Which of the following statements is/are correct regarding Equatorial Counter Current?**

1. It is an eastward flowing current found in Indian Ocean only.
2. The counter currents shift south during the northern winter and north during the summer.
3. In the Indian Ocean, the current tends to reverse hemispheres seasonally due to the impact of reversing Asian monsoon.

Select the correct answer using the code given below:

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

**2. Which of the following statement are *incorrect* regarding Krishna River and its Tributaries?**

1. The Krishna is the largest east flowing Peninsular River.
2. The catchment area of the river Krishna does not include Andhra Pradesh.
3. The Tungabhadra, the Koyana, the Ghatprabha, the Musi and the Bhima are some of its tributaries.

Select the correct statement 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

**3. Which of the following statements are correct regarding Thermocline?**

1. It is an oceanic water layer in which water temperature gradually increase with increasing depth.
2. About 90 per cent of total volume of water is found below the thermocline.
3. It is absent in both Arctic and Antarctic circles.

Select the correct answer using the code given below:

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

**4. Consider the following statements regarding Himalayan Drainage System:**

1. The mighty river called Shiwalik or Indo-Brahma once traversed the entire longitudinal extent of the Himalaya from Assam to Punjab during the Pleistocene period.
2. The Potwar Plateau act as the water divide between the Indus and Ganga drainage systems.
3. The mature phase of Himalayan rivers form depositional features like flat valleys, ox-bow lakes, flood plains, braided channels, and deltas near the river mouth.

Which of the above statement/s is/are correct?

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

**5. Which of the following is/are the reasons of debris avalanche and land slide in the Western Ghats?**

1. Many slopes are steeper with almost vertical cliffs and escarpments in the Western Ghats and Nilgiris.
2. Mechanical weathering due to temperature changes and ranges is pronounced.
3. They receive heavy amounts of rainfall over short periods.

Select the correct answer using the code given below:

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

**6. Which of the following statements are correct about Rock system in India?**

1. Most of the coal found in India is a part of the Carboniferous rocks.
2. Purana Rock System includes the Cuddapah System and the Vindhyan System.
3. Dravidian Rock System are sedimentary rocks, and abundant fossils can be found in them.

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

**7. Which of the following pairs of Mountain pass and its location are correctly matched?**

1. Khardung La                      Jammu and Kashmir
2. Pensi La                      Ladakh
3. Bara Lacha La                      Uttarakhand
4. Jelep La                      Sikkim
5. Lipulekh                      Uttarakhand

Select the correct answer using the code given below:

- (a) 1, 2, and 3 only                      (b) 1, 3, 4 and 5 only                      (c) 3, 4, and 5 only                      (d) 2, 4, and 5 only

**8. Which of the following statements is/are correct regarding Indo-Gangetic-Brahmaputra Plain?**

1. The maximum depth of alluvium deposits varies between 4,000-5,000 m.
2. From the north to the south, these can be divided into three major zones: the Bhabar, the Tarai and the alluvial plains.
3. The south of Tarai is a belt consisting of old and new alluvial deposits known as the Khadar and Bhangar respectively.

Select the correct answer using the code given below:

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

**9. Which of the following statements is/are incorrect about Eastern Hills and Mountains of the Himalayas?**

1. It is also called as the Purvanchal and consists of Patkai hills, the Naga hills, Manipur hills and the Mizo hills.
2. These hills running through the northeastern states are mostly composed of strong sandstones which are sedimentary rocks.

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

**10. Which of the following statement is/are correct regarding Central Highlands?**

1. The Central highlands is a classic example of the relict mountains which are highly denuded and form discontinuous ranges.
2. Central Highlands has undergone metamorphic processes in its geological history, which can be corroborated by the presence of metamorphic rocks such as marble, slate, gneiss.
3. The Rajmahal hills are the eastern extension of the Central Highland.

Select the correct statement using the code given below:

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

**11. Consider the following statements regarding the Indian deserts:**

1. River Luni passes through the Great Indian desert.
2. Rajasthan and Gujarat are the only two states where deserts are found in India.

Which of the above statements is/are correct?

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

**12. Which of the following statements is incorrect regarding the Karewa formation in India?**

- (a) In India, it is found only in Kashmir valley and bhadarwa valley of Jammu.
- (b) It is located between PirPanjal and Shivaliks.
- (c) It is famous for saffron and almond cultivation.
- (d) The valley where Karewa is found is drained by the river Indus.

**13. Consider the following statements:**

1. India shares its international borders with 6 countries.
2. India shares its longest border with Bangladesh.
3. 5 Indian states touch the Nepalese border with India.
4. The Sir Creek is a disputed boundary between India and Sri Lanka.

Which of the above statements are correct?

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

**14. Consider the following statements regarding the location of India:**

1. The vertical extent of India is longer than that of horizontal extent.
2. The Tropic of Capricorn passes through the middle of the country dividing it into two latitudinal halves.
3. The southernmost point of India is called Indira Point and is located close to the Palk Strait.

Which of the above statements is/are correct?

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

**15. Consider the following statements regarding the Evolution of the Peninsular Drainage System:**

1. Peninsular rivers are younger than Himalayan rivers.
2. The Peninsular rivers form estuaries along the west coast and deltas along the east coast of India.
3. The Peninsular block is tilted towards the South-West allowing the Peninsular rivers to flow swiftly into the Arabian sea.

Which of the above statements is/are correct?

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

**16. Consider the following statements regarding Small Rivers in India:**

1. Mahi merges from Aravali ranges and drains into Gulf of Khambat.
2. The Subarnarekha river rises from the Chotanagpur plateau and drains into the Bay of Bengal.
3. The Pennar river is known as the 'little Ganga of the South'.
4. River Luni is a perennial river that flows into the Arabian Sea.

Which of the above statements are correct?

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

**17. Which of the following methods are used in the study of interior of earth?**

1. Rocks got from mining areas and Meteors      2. Deep Ocean Drilling  
3. Volcanic eruption      4. Gravitation activity

Select the correct answer from the code given below:

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

**18. Which of the following statements is/are incorrect regarding Igneous rocks?**

1. They are known as secondary rocks.      2. They form when magma cools and solidifies.  
3. Granite, gabbro and pegmatite are examples of it.

Select the correct answer using the code given below:

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

**19. Which of the following pairs is/are correctly matched?**

*Sedimentary Rocks Mode of formation*

1. Sandstone Mechanically formed      2. Chert Chemically formed      3. Geysers Organically formed

Select the correct answer using the code given below:

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

**20. Consider the following :**

1. Playas      2. Deflation Hollows      3. Sand Dunes

Which of the above is/are erosional landforms of wind?

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

**21. Which of the following pair of rocks do not lead to formation of caves in Karst Topography?**

- (a) Shales and limestone      (b) Quartz and dolomites  
(c) Shales and Sandstones      (d) Sandstones and limestone

**22. Consider the following pairs related to the types of plateau and their location:**

*Type of Plateau Location*

1. Intermontane Bolivian Plateau      2. Piedmont Patagonia Plateau  
3. Volcanic Colorado Plateau      4. Flood basalt Colombia Plateau

Which of the above pairs are correctly matched?

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

**23. Which of the following characteristic feature of fluvial Erosional landforms are correctly matched?**

1. Gorges: They are formed due to active down cutting of the valleys through the mechanism of pothole drilling during juvenile stage.  
2. Potholes: They are generally formed in coarse-grained rocks such as sandstones and granites.  
3. Waterfalls: They are formed due to variation in the relative resistance of rocks.

Select the correct answer using the code given below:

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

**24. Consider the following statements regarding the minerals and their characteristics:**

1. Quartz is soluble in water and thus, soft in nature.      2. Hornblende is another form of amphibole.

Which of the above statements is/are correct?

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

**25. Consider the following statements with respect to Palaeomagnetism:**

1. Earth's magnetic field fluctuates in strength due to changes in temperature and convection currents at the outer core.  
2. It provides evidence to support the theory of plate tectonics and the formation of continents.

Which of the above statements is/are correct?

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

**26. Suess Theory is related to which of the following?**

- (a) Interior of the earth      (b) Atmosphere      (c) Earthquake      (d) Continents and Oceans

**27. Consider the following statements:**

1. Formation of Himalayas with sedimentary rocks      2. Mechanical weathering due to temperature changes  
Which of the above factors is/are responsible for debris avalanches and landslides in India?

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

**28. Consider the following statements:**

1. Upliftment of Himalayas      2. Outpouring of lava and formation of the Deccan Traps

Which of the above is/are result of movement of the Indian plate?

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

**29. Consider the following statements regarding Loess:**

1. Loess is mostly created by wind, but can also be formed by glaciers
2. In parts of China, residents build cavelike dwellings in thick loess cliffs.
3. Unlike other soils, loess is loosely packed.

Which of the above statements is/are correct?

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

**30. Consider the following statements about Block Mountains.**

1. Block Mountains are formed when the earth's crust bends.
2. Vosges Mountain is an example of Block Mountain.

Which of the above statements is/are correct?

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

**31. Consider the following pairs:**

1. Moho discontinuity: separates Crust and upper mantle
2. Guttenberg discontinuity: separates lower mantle and outer core
3. Lehman discontinuity: separates inner and outer core

Which of the above statements is/are correct?

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

**32. Consider the following statements:**

1. Nepal is at the junction of the Indian and Eurasian tectonic plates so is earthquake prone
2. Most of the world's earthquake occurs along Pacific Ring of Fire.
3. Bureau of Indian Standards, based on the past seismic history, grouped the country into five seismic zones.

Which of the above statements are correct?

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

**33. "Big Bang Theory regarding the origin and evolution of the universe is the most accepted theory of the modern time."**

Consider the following statements in this regard:

1. The big bang theory is also called as expanding universe hypothesis.
2. Tiny ball like atom which exploded violently to take shape of modern day universe is referred as Singularity.
3. 'The Big Splat' is the event marked by the collision of earth with giant asteroid.

Which of the above statements is/are correct?

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

**34. According to Wegener, the movement responsible for the drifting of the continents is caused by this force. Which force is it?**

- (a) Pole-fleeing force                      (b) Centrifugal force                      (c) Convectional Current                      (d) All of the above

**35. With respect to Convectional Current Theory, consider the following statements:**

1. These currents are generated due to radioactive elements causing thermal differences in the mantle portion.
2. The movement of the lithospheric plates is caused by the movement of the magma in the crust.
3. Harry Hess discussed the possibility of convection currents in the mantle.

Which of the above statement/s is/are correct?

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

**36. Regarding the concept of Sea Floor Spreading, consider the following statements:**

1. Seafloor spreading and other tectonic activity processes are the result of mantle convection.
2. The rocks of the oceanic crust near the oceanic ridges are much older than the rocks of the continental crust.
3. Seafloor spreading occurs at divergent plate boundaries.

Which of the above statement/s is/are correct?

- (a) 1 and 3 only                      (b) 3 only                      (c) 1 and 2 only                      (d) None of the above

**37. Which of the following statement is *incorrect* regarding rock cycle?**

- (a) It is a continuous process.                      (b) Primary rocks are source of others rocks.  
(c) Sedimentary rocks cannot be changed into primary rocks.                      (d) Temperature plays an important role in it.

**38. Consider the following statements regarding the process of Gradation and its types:**

1. Gradation is the process of levelling of the land by means of natural agents like rivers, ground water, winds, glaciers, and sea waves.

2. Erosion is the most dominant action of river in the upper course.
3. In India, deep gorges have been formed by Brahmaputra and Indus in the Himalayas.
4. Karst topography is formed due to the dissolution of soluble rocks such as limestone, dolomite and gypsum.

Which of the above statement/s is/are correct?

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

**39. Which of the following statements regarding the diastrophism are correct?**

1. By this process the earth materials can be simply as well as severely deformed.
2. A relatively local event like earthquake or a larger event like plate tectonics, both comes under diastrophism.
3. The process of diastrophism works only in tangential direction to the crust material.

Select the correct option using the codes given below:

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

**40. Which of the following denudational processes can be aided by the gravity?**

1. Solifluction                      2. Erosion                      3. Physical weathering                      4. Earth flow

Select the correct option using the codes given below:

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

**41. Which of the following is/are the significance of weathering?**

1. It is a pre-requisite for mass wasting as well as erosion.
2. It is a pre-requisite in the formation of soils.
3. It is responsible for bio-diversity on the earth.

Select the correct option using the codes given below:

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

**42. Which of the following pairs regarding the features/results of chemical weathering and corresponding weathering processes are correctly matched?**

1. Sinkholes: Hydration                      2. Gypsum: Carbonation                      3. Wave rocks: Hydrolysis                      4. Rusting: Oxidation

Select the correct option using the codes given below:

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

**43. Consider the following statements:**

1. Both tors and domes are the features resulting from weathering due to thermal expansion.
2. Domes are large round structure whereas, tors can be small.

Which of the above statements is/are correct?

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

**44. 'Enrichment' of earth materials is done by which of the following processes?**

- (a) Weathering                      (b) Mass wasting                      (c) Erosion                      (d) All of the above.

**45. Which of the following statements regarding the Solifluction is/are correct?**

1. It is a slow mass movement of the saturated soil due to alternate freezing and thawing.
2. It can occur both in permafrost and in non-permafrost regions.
3. It reaches its maximum potential in the winters.

Select the correct option using the codes given below:

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

**46. Consider the following statements regarding Erosion and Deposition:**

1. Physical erosion describes the process of rocks changing their physical properties without changing their basic chemical composition.
2. The shape of sediment affects deposition rates, as flat pieces of sediment settle more quickly than round pieces.

Which of the above statement/s is/are correct?

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

**47. Which of the following statements is/are correct regarding geomorphic agents?**

1. Landforms are results of the action of certain geomorphic processes and agent(s).
2. Actions of most of the geomorphic processes and agents are fast.
3. Ground water, wind, glaciers and waves are examples of geomorphic agents.

Select the correct answer using the code given below:

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

**48. Consider the following statements regarding Stalactites, Stalagmites and Pillars :**

1. Stalactites normally are broad towards the free ends and taper at their bases showing up in a variety of forms.

2. Stalagmites form due to dripping water from the surface or through the thin pipe, of the stalactite.  
 3. The stalagmite and stalactites eventually fuse to give rise to columns and pillars of different diameters.  
 Which of the above statements is/are correct?

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

**49. Consider the following statements regarding Drumlins:**

1. It is composed mainly of glacial till with some masses of gravel and sand.  
 2. It gives an indication of direction of glacier movement.  
 3. The long axes of drumlins are perpendicular to the direction of ice movement. .  
 Which of the above statements is/are correct?

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

**50. In arid areas drainage from upland regions into the lower depression, in times of sufficient water, create shallow water body or a temporary lake. Quite often it contains good deposition of salts. Which of the following fits the above description?**

(a) Bajada                      (b) Playa                      (c) Butte                      (d) Oasis

**51. Consider the following statements regarding Indian Ocean Dipole (IOD):**

1. It is the difference of sea surface temperature between an eastern pole in the Arabian Sea and a western pole in the eastern Indian Ocean.  
 2. It is an independent phenomenon and does not have any link with El Niño–Southern Oscillation (ENSO).  
 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

**52. Which of the following statements regarding Inter Tropical Convergence Zone (ITCZ) is/are correct?**

1. In July, the ITCZ is located over the Krishna Godavari basin.  
 2. There is a cause and effect relationship between ITCZ and the westerly jet stream.  
 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

**53. Consider the following pairs:**

<i>Local Storms</i>	<i>State</i>
1. Bardoli Chheerha	Assam
2. Blossom Shower	Kerala
3. Loo	Bihar

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

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

**54. Which of the following are the reasons for the excessive cold in north India during the winter season?**

1. Continental climate of States like Punjab, Haryana and Rajasthan.  
 2. The snowfall in Himalayan ranges creates a cold wave situation.  
 3. Cold winds coming from the Caspian Sea and Turkmenistan.

Select the correct option using the codes given below:

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

**55. Which of the following places has the maximum diurnal range of temperature?**

(a) Mumbai                      (b) Delhi                      (c) Chennai                      (d) Jaisalmer

**56. Consider the following pairs:**

<i>Monsoon terminology</i>	<i>Meaning</i>
1. Monsoon burst	Sudden onset of the monsoon
2. Monsoon break	Dry spell in rainy season
3. Monsoon trough	High pressure area in the Ganga river basin

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

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

**57. Consider the following statements regarding distribution of rainfall in India:**

1. The average annual rainfall in India is about 75 cm.  
 2. The highest rainfall occurs along the west coast.  
 3. Most of the rainfall in India is convectional rainfall.

Which of the statements given above is/are correct?

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

**58. Which of the following are the reasons for Tamilnadu remaining dry during the period of South west monsoon?**

1. The Eastern ghats and Tamilnadu coast are almost parallel to the direction of southwest monsoon.
2. Tropical cyclones disturb the pattern of south west monsoon.
3. Tamilnadu lies in the rain-shadow area of the Western Ghats.

Select the correct option using the codes given below:

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

**59. Mawsynram receives the highest average annual rainfall in the world, It is located near which of the following hills/Mountain peak?**

- (a) Garohills                      (b) Crest of Jaintia hills                      (c) Khasi hills                      (d) Tura mountain

**60. Consider the following statements**

1. Mangalore receives less rainfall than Bengaluru.
2. In the northern plain of India, the amount of rainfall decreases from east to west.

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

**61. Which of the following are the reasons for the more number of tropical cyclones in the Bay of Bengal as compared to the Arabian sea?**

1. The surface area of the Bay of Bengal is smaller than that of Arabian sea.
2. The Bay of Bengal is warmer than Arabian sea.
3. The Somalian water current mitigates the surface temperature of the Arabian sea.

Select the correct option using the codes given below:

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

**62. Which of the following is/are the effects of ocean currents?**

- (a) Helps in counteracting the uneven distribution of solar radiation reaching Earth's surface.
- (b) Circulation of ocean currents can impact a plant's natural geographic extent.
- (c) Influences the climate of coastal region
- (d) All of the above

**63. Consider the following statements:**

1. Westerly jet stream blows during summer over the sub-tropical zone.
2. Easterly jet stream owes its origin to the heating of the Tibet plateau.
3. When the winter pressure is low over the Pacific ocean, the south-west monsoons in India tend to be stronger.

Which of the statements given above is/are correct?

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

**64. The intensity of the southwest monsoon winds of southern oscillation can be measured by measuring the difference in pressure. Which of the following places are considered for measuring pressure differences?**

- (a) Victoria and Fiji island                      (b) Tahiti and port Darwin  
(c) Hawaii island and Reunion Island                      (d) Canberra and Chennai

**65. Consider the following:**

1. During summers, the weather can be as hot as 45°C and humid.
2. Nights are relatively cooler and temperature dips to the range of 30°C.
3. Torrential rains and high humidity accompanies the monsoons.

The above climate characteristics are of which of the following places?

- (a) Kanpur                      (b) Mumbai                      (c) Shimla                      (d) Chennai

**66. Why are dewdrops not formed on a cloudy night?**

- (a) Clouds absorb the radiation released from the Earth's surface.
- (b) Clouds reflect back the Earth's radiation.
- (c) The Earth's surface would have low temperature on cloudy nights.
- (d) Clouds deflect the blowing wind to ground level.

**67. Which one of the following is the characteristic climate of the Tropical Savannah Region?**

- (a) Rainfall throughout the year                      (b) Rainfall in winter only  
(c) An extremely short dry season                      (d) A definite dry and wet season

**68. Consider the following statements regarding the distribution of rainfall:**

1. As we move poleward from the equator, the rain is heavier on the eastern coasts and goes on decreasing towards the west always.

2. The windward slopes of the mountains along the western coasts in the cool temperate zone receive heavy rainfall of over 200 cm per annum.

3. The interior parts of the temperate lands receive rainfall varying between 50 – 100 cm per annum.

Which of the above statements is/are correct?

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

**69. Consider the following statements regarding the rotation of earth around sun:**

1. The Aphelion and Perihelion are the position where earth is closest and farthest from the sun, respectively.

2. The Aphelion and Perihelion are the position generated due to circular path of the earth around the sun.

3. There is no effect on the solar output received at the top of the atmosphere due to aphelion and perihelion position at all.

Which of the above statements is/are *incorrect*?

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

**70. Consider the following statements regarding the Global heat budget:**

1. A net gain of energy occurs in the tropics where dense vegetation leads to low albedo effect.

2. Albedo is the property of substance directly proportional to amount of reflected radiation.

3. The net amount of heat received in the form of insolation is equal to heat lost through terrestrial radiation by earth.

Which of the above statements is/are correct?

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

**71. Consider the following statements:**

1. The presence of water in stratosphere can be due to the oxidation of methane.

2. Water is transported into the stratosphere from the tropical region only.

3. The water vapour present in the stratosphere can cause the ozone depletion due to its free radicals.

4. It can also provide the media for the other ozone depleting reactions.

Which of the above statements are correct?

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

**72. Consider the following statements:**

1. Absolute humidity is a measure of the actual amount of water vapor in the air, regardless of the air's temperature.

2. If Relative humidity is 100% the actual temperature of the air is equal to the Dew point.

3. Dew Point is the temperature at which condensation begins.

Which of the above statements are correct?

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

**73. Which of the following statements regarding the 'Atmospheric rivers' is/are correct?**

1. They are narrow, elongated corridors of concentrated moisture transport systems.

2. They are the largest transport mechanisms of freshwater on Earth.

3. They primarily occur during the time when tropical cyclones are more prevalent.

Select the correct option using the codes given below:

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

**74. Which of the following statements regarding the cloud seeding are correct?**

1. It can be used not only to enhance precipitation but also to reduce lightning.

2. It works only when there are enough preexisting clouds in the atmosphere.

3. Liquid propane can be used as the seeds of the rain.

Select the correct option using the codes given below:

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

**75. Consider the following statements regarding the Taiga biome:**

1. It is the world's largest terrestrial biome.

2. The soil beneath the biome often contains permafrost which prevents water from draining from the top layers of soil.

3. Mosses, lichens, and mushrooms cover the floor of this biome instead of shrubs and flowers.

Which of the above statements is/are correct?

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

**76. Consider the following statements:**

1. When water vapour in the air condenses into tiny droplets of liquid water, they stay suspended in the air and fog is formed.

2. In mist each nucleus contains a thinner layer of moisture than in fog.

3. Haze is the suspension of extremely small, dry particles in the air, not water droplets.



Which of the above statements are correct?

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

**77. Consider the following statements regarding the dew formation in the atmosphere:**

1. The ideal conditions for its formation are a clear sky, calm air, high relative humidity, and cold and long nights.
2. For the formation of dew, it is necessary that the dew point is below the freezing point.

Which of the above statements is/are correct?

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

**78. Consider the following statements:**

1. The water droplets and ice crystals remain suspended in the atmosphere as clouds even after condensation in most of the cases.
2. In clouds with temperatures above freezing point water droplets grow through collision and coalescence before raining to the Earth's surface.
3. Cold clouds whose temperature is below freezing point can contain both ice crystals and supercooled water droplets even at the temperature well below the freezing point.

Which of the above statements are correct?

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

**79. Consider the following statements regarding condensation:**

1. The most favourable condition for condensation is the decrease in air temperature.
2. Warm climates are more likely to have rain than the colder climates because the warmer climates can hold more water.
3. Condensation depends both upon the amount of cooling and the relative humidity of the air.

Which of the above statements are correct?

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

**80. Consider the following statements regarding frost formation:**

1. Frost forms in the same way as dew except it occurs when the air temperature is at or below the freezing point.
2. Frost can form either by deposition or freezing.

Which of the above statements is/are correct?

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

**81. Which of the following statements are correct?**

1. Earth's early atmosphere was made primarily of Hydrogen and Helium.
2. Volcanic eruptions have played a major role in the evolution of the atmosphere.
3. Early atmosphere did not have oxygen and nitrogen.

Select the correct option using the codes given below:

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

**82. Which among the following is the most concentrated permanent gas of the atmosphere?**

- (a) Oxygen                      (b) Nitrogen                      (c) Helium                      (d) Water vapour

**83. Consider the following statements:**

1. When the sun is almost overhead, the insolation is concentrated in a smaller area on the earth.
2. When the sun's rays have small angle, the amount of reflection and absorption of heat by atmosphere is larger.
3. Larger humidity in the air results in the lesser amount of insolation reaching the surface.

Which of the above statements are correct?

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

**84. Consider the following statements regarding the radiation (heat) balance:**

1. Both natural and man-made factors are responsible for the change in the heat balance of the earth.
2. Carbon dioxide absorbs infrared energy with wavelengths in a part of the energy spectrum that other gases, such as water vapor, do not.
3. Most of the impacts of the anthropogenic factors on the heat balance of the earth are mitigated by the ocean.

Which of above statements are correct?

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

**85. Which of the following statements is/are incorrect?**

1. Most of diurnal variations in daily weather in the middle latitudes are caused by the advection alone.
2. The convective transfer of energy is confined only to the troposphere.
3. In tropical regions particularly in northern India, the 'loo' is the outcome of the convection.
4. After being heated by the infrared radiation from the earth, the atmosphere in turn radiates heat in short waves to the space.

Select the correct option using the codes given below:

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

**86. Consider the following statements:**

1. Surface inversion promotes stability in the lower layers of the atmosphere.
2. Due to constant temperature in the polar areas, the temperature inversion does not take place here.
3. Air drainage inversion protects plants from frost damages.
4. The temperature inversion does not take place over subtropical oceans due to the presence of the high-pressure belts here.

Which of the above statements is/are correct?

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

**87. Consider the following statements:**

1. Since the vertical pressure gradient force is much smaller than that of the horizontal pressure gradient, we do not experience strong upward winds.
2. Close spacing of isobars indicates a steep pressure gradient, while wide spacing indicates weak gradient.
3. The pressure belts on the earth are the results of the horizontal pressure gradients.

Which of the above statements is/are correct?

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

**88. Which of the following statements is/are correct regarding the planetary winds?**

1. The trade winds, westerlies and easterlies are the planetary winds
2. Planetary winds comprise winds distributed throughout the lower atmosphere.

Select the correct option using the codes given below:

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

**89. Consider the following statements regarding 'doldrums':**

1. The positions of the regions are fixed at five degrees north and south of the equator.
2. These are the regions where trade winds from the both hemispheres converge.
3. Because the air circulates in an upward direction, there is often little surface wind here.

Which of the above statements are correct?

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

**90. Which of the following statements regarding horse latitudes is/are correct?**

1. The conditions of the horse latitudes are the main cause for the existence of the world's major non-polar deserts.
2. These are the regions where winds diverge and blow towards poles as well as equator.

Select the correct option using the codes given below:

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

**91. Consider the following statements regarding humidity:**

1. Humidity is the water vapor present in the air.
2. Relative Humidity is least over the oceans and greater over the continents.

Which of the above statements is/are correct?

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

**92. Which of the following statements is/ are correct about Coriolis force?**

1. It deflects the wind to the right direction in the northern hemisphere and to the left in the southern hemisphere.
2. It is maximum at the poles and is absent at the equator.
3. It plays a vital role in the formation of cyclones in tropics.

Select the correct answer using the code given below:

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

**93. Consider the following statements about the "social forestry"-**

1. The National Commission on Agriculture, GoI, first used the term 'social forestry' in 1976.
2. Silviculture, Farm Forestry, Community Forestry and Extension Forestry are the components of social forestry.

Which of the above statement/s is/are correct?

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

**94. Consider the following statements regarding Dust Particles:**

1. Dust particles are generally concentrated in the upper layers of the atmosphere.
2. Higher concentration of these particles found in subtropical regions than equatorial regions.

Which of the above statements is/are correct?

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

95. "As per Koeppen classification this climate is found over the Indian sub-continent, North Eastern part of South America and Northern Australia. Heavy rainfall occurs mostly in summer. Winter is dry". Which of the following climate is mentioned in paragraph?

- (a) Tropical Monsoon Climate (Am)                      (b) Tropical Wet and Dry Climate (Aw)  
(c) Tropical Wet Climate (Af)                              (d) Humid Subtropical Climate (Cwa)

96. Which of the following strategies can be used to mitigate the danger of deforestation?

1. Hydroponics.
2. Transferring rights over land from public domain to its indigenous inhabitants
3. Afforestation

Select the correct option using the codes given below:

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

97. Which of the following statements is correct regarding the Ionosphere layer of the atmosphere?

- (a) The temperature here starts increasing with height.
- (b) The temperature here starts decreasing with height.
- (c) It is the uppermost layer of the atmosphere.
- (d) All changes in climate and weather take place in this layer.

98. The transfer of heat through the horizontal movement of air is called:

- (a) Degassing                      (b) Differentiation                      (c) Conduction                      (d) Advection

99. Consider the following:

1. Large sea surface with a temperature lower than 27°C.
2. Small variations in the vertical wind speed.
3. A pre-existing weak low-pressure area.
4. Absence of Coriolis force.

Which of the above given conditions are favorable for the formation of tropical cyclones?

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

100. Consider the following statements regarding Thunderstorms and Tornadoes:

1. Both are violent storms occurring over a small area but for a short duration.
2. If there is insufficient moisture, a Tornado can generate dust storms.
3. Thunderstorms over the sea are called water sprouts.

Which of the above statements is/are correct?

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

**ALL THE BEST**