



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

Exam: - Geography
Total Marks: 200

Syllabus: - Climatology
Negative Marks: - 0.66

Date: - 28-Nov- 2021
Paper Code: Geo2103

1. Match list I with list II and select the correct answer using the code given below:

List-I (Atmospheric layer)	List-II (Special feature)
Troposphere	Mother of Pearls
Stratosphere	Normal Lapse Rate
Ionosphere	Aurora Borealis
Mesosphere	Rise in Temperature

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

2. Examine the following statements and select the correct answer using codes given below:

- Troposphere contains over 90% of the earth's water vapour.
 - Temperature at tropopause is less at the equator than at the poles.
- (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2

3. Consider the following statements:

- The diffused light that occurs before sunrise is known as dawn.
- Light is scattered by the molecules of atmosphere gases.
- The duration of dawn and twilight varies with altitude.
- Lower sun angles produces longer dawn and twilight.

Which of the above statements are correct?

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

4. Consider the following statements:

- The reflective quality of a surface, expressed in percentage of the total energy received known as its albedo.
- The albedo of water surface varies from 2 to 99 per cent depending on the angle of incidence of the sun's rays.
- The overall albedo of clouds is larger than other surface.

Which of the above statements is/are correct?

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

5. Which of the following statements are true regarding trade winds?

- They constantly blow from tropical high pressure belt to equatorial low pressure belt.
- They derive their name from the trade which was carried on with help of these winds in the medieval period.
- They bring lot of rainfall to the equatorial low pressure belt.
- They are deflected from their path due to the earth's rotation.

Select the correct options:

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

6. Consider the following statements about the 'Roaring Forties':

- They blow uninterrupted in the Northern and Southern Hemisphere.
- They blow with great strength and constancy.
- Their direction is generally from north- west to south-east in the southern hemisphere
- Overcast skies, rain and raw weather are generally associated with them.

Which of the above statements are correct?

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

7. A new type of El Nino called El Nino Modoki has been noticed. In this context, consider the following statements:

1. Normal El Nino forms in the Central Pacific Ocean whereas El Nino Modoki forms in Eastern Pacific ocean.
2. Normal El Nino results in diminished hurricanes in the Atlantic Ocean but El Nino Modoki results in a greater number of hurricanes with greater frequency.

Correct statements:

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

8. Consider the following statements:

1. Speed of the valley breeze is approximately proportional to the square root of the temperature differences between the top and bottom of the valley.
2. Mountain breezes generally cause inversion of temperature in the valley.

Which of the above statements is/are correct?

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

9. Which of the following factors influence the temperature of air at any place?

1. Latitude
2. Altitude
3. Distance from the sea
4. Ocean currents

Select the correct answer using the code given below.

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

10. Which of the following are cold ocean currents?

1. Gulf stream
2. Californian current
3. Humboldt current
4. Agulhas current
5. Benguela Current

Select the correct answer using code given below.

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

11. Despite the long duration of sunshine in summers, the Polar Regions have very low temperatures. Which of the following is/are the reasons for this?

1. Most of the time the Sun remains near to the horizon.
2. Much of the Sun rays are reflected by the ground snow or used up in melting up of ice cover.

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

12. Which of the following is/are the characteristics of Mediterranean climate?

1. Shifting of wind belts
2. Dry, warm summer with off-shore trade winds
3. Confined to the Western margins of the continents, between 30 to 40 degrees latitudes.

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

13. With reference to the China type climate consider the following statements:

1. It receives rainfall under the influence of South East Monsoon.
2. It has high annual range of temperature.
3. It is characterised by occurrence of intense tropical cyclones.

Which of the statements given above is/are correct?

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

14. A rainfall type has the following characteristics:

1. Common in the summer or in the hotter part of the day.
2. Short duration heavy rainfall with thunder and lightning.
3. Common in the equatorial regions and interior parts of the continents.

Which of the following type of rainfall have all the above characteristics?

- (a) Orographic Rainfall (b) Conventional Rainfall (c) Cyclonic Rainfall (d) Thunderstorms

15. Which of the following is/are the cause of major hot deserts of the world?

1. Descending air due to high pressure Belt.
2. Presence of cold current on the Eastern margin of continent.
3. Very high temperature due to proximity to equator.

Select the correct answer using the codes given below.

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

16. With reference to Fronts, consider the following statements:

1. The process of formation of the fronts is known as frontogenesis.
2. They do not occur in tropical latitudes.
3. They cause abrupt changes in temperature.

Which of the statements given above are correct?

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

17. Which of the following is *not* a feature of British type of climate?

- (a) Rainfall occurs throughout the year. (b) Ports are frequently frozen.
(c) Presence of four distinct seasons. (d) Influence of westerlies all around the year.

18. Consider the following pairs:

Type of clouds	Characteristics
1. Cirrus:	Detached Clouds having feather like appearance
2. Cumulus:	Looks like cotton wool and exist in patches
3. Stratus:	Layered clouds formed by mixing of air masses of different temperatures

Select the correct answer using code given below.

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

19. Consider the following statements:

1. Absolute humidity is the weight of water vapour present in unit volume of air.
2. Absolute humidity decreases with rise in temperature.

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

20. Consider the following statements with regard to planetary winds:

1. The deflection in the movement of the planetary winds due to Coriolis force is always towards right.
2. The movement of planetary winds affects the circulation of ocean currents.

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

21. Consider the following statements:

1. The Sun is vertically overhead at the equator only during two days each year.
2. On Equinoxes, all the places of earth will have equal lengths of days and nights.
3. On Winter Solstice, the southern hemisphere will have its shortest day and longest night.

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

22. Which of the following factors affect insolation on the surface of earth?

1. Latitude 2. Altitude 3. Transparency of atmosphere 4. Continentality

Select the correct answer using the code given below.

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

23. Consider the following statements regarding soils of tundra region:

1. They are characterised by high bacterial activity.
2. They show deeper soil profiles.

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

24. Koeppen's system of climatic classification based on which of the following parameters?

1. Temperature 2. Precipitation 3. Distribution of vegetation

Select the correct answer using the code given below.

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

25. With reference to Tropical Cyclones, consider the following statements:

1. Coriolis force is essential for formation of the cyclones.
2. The wind speed is maximum at the eye of the cyclones.
3. They develop only over the oceans.

Which of the statements given above is/are correct?

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

26. Which among the following is the most appropriate reason for very heavy rainfall in Equatorial region?

- (a) Rain is well distributed throughout the year and there is no dry season or month like other climates.
- (b) There are two periods of maximum rainfall which occur in April and October.
- (c) A single afternoon may receive more rainfall than what the deserts receive in the whole year.
- (d) Large scale evaporation and convective air currents result in convective rainfall with nimbostratus clouds along with thunder and lightning.

27. Which of the following condition may lead to Inversion of Temperature?

1. A long winter night with cloudy sky.
2. Air drainage down the slope of mountains.
3. Increase in Green house gases and Climate change.

Select the correct answer using the code given below.

- (a) 1 and 3 only (b) 2 only (c) 1, 2 and 3 (d) None

28. Which of the following statements is/are correct regarding structure of the atmosphere?

1. Temperature decreases steadily with increase in height.
2. Thickness of troposphere is highest at Equator and lowest at the poles.
3. Ionosphere layer is responsible for radio transmission on earth.

Select the correct answer from the code given below.

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

29. Which of the following conditions enhance Chemical weathering?

1. Dry climatic conditions
2. Presence of Soil covers
3. Bacterial activity

Which of the statements given above is/are not correct?

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

30. Consider the following statements with regard to local winds:

1. The Fohn and Chinook winds are cold winds that aids in snow formation.
2. The Chinook winds aid in the growth of crops and fruits in the North America.
3. Fohn winds are experienced in the valleys of the northern Alps.

Which of the statements given above is/are correct?

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

31. In the North Indian Ocean, there is a complete reversal of the direction of ocean currents between summer and winter. Which of the following factors is primarily responsible for this phenomenon?

- (a) Temperature (b) Winds (c) Salinity (d) Insulation

32. Which of the following sub-branches of the Arabian Sea branch of southwest monsoon merges with the Bay of Bengal branch?

1. Branch crossing Western Ghats and passing through Narmada and Tapi valley.
2. Branch traveling parallel to the Aravallis.

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

33. Which among the following is/are the effects of tropical cyclones brought by easterly jet streams into India during summer season?

1. They affect the distribution of monsoon rainfall in India.
2. They reduce the amount of monsoon rainfall in India.

Select the correct answer using the code below:

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

43. Which among the following are found in the state of Tamil Nadu?

1. Tropical dry evergreen Forests.
2. Tropical deciduous Forests.
3. Littoral and swamp forests.
4. Montane forests.

Select the correct answer using the code given below.

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

44. Which of the following are incorrect regarding Temperate and tropical cyclones?

1. Tropical cyclones are generally bigger and more destructive than temperate cyclones.
2. Tropical cyclones develop only over the seas while temperate cyclones develop over both land and ocean.
3. India being a tropical country does not come under influence of temperate cyclones.

Select the correct answer using the code given below.

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

45. Which of following are the characteristic features of Tropical Evergreen forests of India?

1. They are multilayered forests with dense canopy.
2. Trees reach great heights.
3. Trees shed their leaves during specific season.

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

46. Which among the following is/are associated with hot weather season in India?

1. Kalbaisakhi
2. Bardoli Chheerha
3. Mango showers
4. Cherry blossoms

Select the correct answer using the code given below.

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

47. Which of the following areas receive annual rainfall of more than 200 cm?

1. Western slopes of Western Ghats
2. Western Himalayas
3. Northern Tamil Nadu

Select the correct answer using the code given below.

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

48. With reference to Inter Tropical Convergence Zone (ITCZ), consider the following statements:

1. It is a high pressure zone located at the equator.
2. Upward shift of ITCZ in summer season causes onset of southwest monsoon.
3. Onset of north east monsoon is independent of shifting of ITCZ.

Which of the statements given above is/are correct?

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

49. Rainfall in India display which of the following features?

1. Inter-Seasonal variation.
2. Intra-Seasonal variation.
3. Orographic rainfall.
4. Convectonal rainfall.

Select the correct answer using the code given below.

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

50. Which of the following factors affect Climate of India?

1. La Nina
2. Westerly jet streams
3. Tibetan plateau
4. Indian Ocean

Select the correct answer using the code given below.

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

51. Which of the following branches of Southwest monsoon is/are responsible for causing rainfall in Western Himalayas?

1. Bay of Bengal branch
2. Arabian Sea branch

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

52. Shola forests are found in which of the following regions?

1. Nilgiri Hills
2. Annamalai hills
3. Andaman and Nicobar Islands

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

53. Arrange the following forests in the increasing order of their abundance in India:

1. Tropical Deciduous forests 2. Littoral and Swamp forests 3. Tropical Evergreen forests

Select the correct answer using the code given below.

(a) 1-3-2

(b) 2-3-1

(c) 2-1-3

(d) 3-2-1

54. When southwest monsoon winds descend on leeward side of Western Ghats they cause little or no rainfall.

This happens because the winds get

(a) Heated and humidity increases

(b) Heated and humidity decreases

(c) Cooled and humidity increases

(d) Cooled and humidity decreases

55. Consider the following statements:

1. The Deccan plateau gets low rainfall due to the rain shadow effect of Western Ghats.

2. Alignment of Aravallis and its low height is one of the reasons for less rainfall in Rajasthan.

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

56. Which of the following is/are associated with retreating monsoon in India?

1. Low pressure over Ganga plains

2. Cyclonic rainfall over Tamil Nadu coast

3. October heat

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

57. Which of the following statements are correct regarding Indian Monsoon?

1. The Bay of Bengal branch is deflected towards India by Arakan Hills in Myanmar.

2. Coromandal coast receives substantial rainfall from Bay of Bengal branch of Monsoon.

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

58. Which of the following conditions can lead to droughts?

1. Inadequate precipitation.

2. Excessive rate of evaporation.

3. Over-utilisation of ground water.

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

59. Which of the following are the reasons for excessive cold in North India?

1. Continentality effect. 2. Snowfall in Himalayas.

3. North east monsoon. 4. Cold winds from Siberia.

Select the correct answer using the code given below.

(a) 1 and 2 only

(b) 1, 2 and 3 only

(c) 2 and 4 only

(d) 2, 3 and 4 only

60. Consider the following statements with regard to droughts:

1. Meteorological Drought is also known as soil moisture drought, characterized by low soil moisture.

2. Hydrological Drought is a situation when there is a prolonged period of inadequate rainfall marked with maldistribution of the same over time and space.

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 conditions are associated with winter season in India?

1. Rainfall by temperate cyclones

2. Prevalence of north east trade winds

3. High rainfall in central parts of India

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

62. Why tropical cyclones affect mainly the coastal areas of India but not the interior parts?

(a) Pressure gradient force is minimal in the coastal areas compared to the interiors.

(b) High temperature across the coastal areas than interiors.

(c) Greater Coriolis force on the coastal land compared to that of interior.

(d) Energy driving the cyclone decreases with the distance from the sea.

63. Which of the following is/are the natural causes of floods?

1. Storm surge. 2. Melting of ice and snow. 3. Indiscriminate deforestation.

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

64. Consider the following statements:

1. The forest cover in India is 33 per cent of the total geographical area of the country.
2. The north eastern states have more than 30 per cent of the land under forest.
3. Lakshadweep has zero per cent forest area.

Which of the statement given above is/are correct?

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

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

Local wind	Beneficial for
1. Kalbaisakhi:	Jute cultivation
2. Loo:	Wheat cultivation
3. Cherry blossoms:	Grape cultivation
4. Mango showers:	Coffee cultivation

Select the correct answer using the code given below.

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

66. Which of the following are the characteristics of Social forestry?

1. Participation of local population
2. Making use of un-used and fallow land
3. Making use of technology which is simple and implementable
4. Equal distribution of benefits derived from forestry

Select the correct answer using the code given below.

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

67. With regard to Saansad Adarsh Gram Yojana, consider the following statements

1. The Project was launched on the occasion of the birth anniversary of Lok Nayak Jai Prakash Narayan.
2. The Panchayat Sarpanchs will be the nodal officer for implementing the SAGY.

Which of the above statements is/are correct?

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

68. Which among the following statements is/are true regarding Guru Gobind Singh?

1. He founded the principles of Khalsa or the Five 'K's'.
2. He introduced the turban to cover the hair of Sikhs.
3. He fought against the Mughals in battle of Muktsar in 1705.

Select the correct answer 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

69. With reference to Bhima-Koregaon battle, consider the following statements

1. It was fought between the British and Peshwa Forces.
2. The Dalits supported the Peshwa forces in the battle.
3. It occurred in 1918.

Which of the above statements is/are correct?

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

70. With regard to Innovations for Defence Excellence (iDEX), consider the following statements:

1. It aim at creation of an ecosystem to foster innovation and technology development in Defence and Aerospace by engaging Industries including MSMEs, start-ups, individual innovators etc.
2. It provide them grants/funding and other support to carry out R&D.
3. It will be managed and funded by Defence Innovation Organization (DIO) which works under the Prime Minister's Office.

Which among 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

71. With regard to 'GiveItUp' campaign, consider the following statements:

1. It encourages well-to-do households to mandatorily give up their liquefied petroleum gas (LPG) subsidy.
2. The money surrendered under this movement will be utilized for poor to get LPG connection in rural areas only.

Which among the above statements is/are correct?

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

72. Which among the following statements is/are correct regarding the India-Norway Marine Pollution Initiative?

1. It is an initiative launched by the Ministry of Earth Sciences (MoES), Government of India and Norwegian Ministry of Environment Affairs.
2. It works towards beach clean-up efforts, awareness raising campaigns and using plastic waste as fuel substitution for coal in cement production.
3. This initiative will seek to support local governments in implementing sustainable waste management practices.

Select the correct answer 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

73. With regard to 'Nirbhaya Fund', consider the following statements:

1. It is Rs.5000 crore funds announced in Union Budget 2013.
2. It is administered by Department of Women and Child Development, Government of India.
3. It is to be utilised for upholding safety and dignity of women.

Which among the above statements is/are correct?

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

74. With regard to Asiatic Lion Conservation Project, consider the following statements:

1. It is announced by Gujarat government.
2. Asiatic Lions are listed as 'Critically Endangered' under the IUCN Red List.

Which among the above statements is/are correct?

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

75. 2020 CD3, recently seen in the news is a:

- (a) Asteroid (b) Satellite launch vehicle of NASA
(c) Electric Vehicle Technology (d) Cyber warfare method

76. International IP Index 2019 is released by which among the following?

- (a) Global Innovation Policy Center (b) World Trade Organization
(c) WIPO (d) Economist Intelligence Unit

77. Assertion (A): Anti cyclonic conditions are found in winter season when atmospheric pressure is high and air temperatures are low.

Reason (R): Winter rainfall in northern India causes development of anti-cyclonic conditions with low temperatures.

- (a) Both A and R is true and R is the correct explanation of A
(b) Both A and R is true but R is not a correct explanation of A
(c) A is true but R is false.
(d) A is false but R is true.

78. Examine the following statements and select the correct answer using the codes given below:

1. Most of the tropical cyclones are circular in shape.
2. Most of the tropical cyclones originate on the western margins of the oceans.
3. The release of latent heat helps in the rotation of tropical cyclone.

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

79. Consider the following statements:

1. A temperate cyclone is formed when a cold air mass meets a warm air mass.
2. Before the arrival of the temperate cyclone, the sun looks paler and there is lunar halo.
3. The arrival of a temperate cyclone is indicated by rise in temperature.

Which of the above statements is/are correct?

(a) 1 only

(b) 2 only

(c) 1 and 2 only

(d) 1, 2 and 3

80. Consider the following statements:

1. A given air mass has homogeneity of temperature and humidity.
2. Air masses originate from particular regions known as source regions.
3. Air masses are influenced by the weather of area visited by them.

Which of the above statements is/are correct?

(a) 1 and 2 only

(b) 2 only

(c) 1 and 3 only

(d) 1, 2 and 3

81. Which among the following are the reasons for unequal distribution of temperature across the surface of ocean?

1. Distance from the Equator
2. Distance from the land
3. Prevailing winds
4. Oceanic Currents

Select the correct answer using the code given below.

(a) 1 and 3 only

(b) 2 and 4 only

(c) 1, 3 and 4 only

(d) 1, 2, 3 and 4

82. Consider the following statements with regard to Tundra type of climate:

1. It is found north of the Arctic circle in the northern hemisphere.
2. Rainfall is cyclonic and not convectonal.
3. Mosses and lichens are the natural vegetation of this region.

Which of the statements given above is/ are correct?

(a) 1 and 3 only

(b) 1 only

(c) 2 and 3 only

(d) 1, 2 and 3

83. Which of the following conditions are suitable for the formation of dew?

1. Cloudy sky
2. Cold and long nights
3. Calm air
4. High relative humidity

Select the correct answer using the codes given below.

(a) 1, 2 and 3 only

(b) 3 and 4 only

(c) 1, 2 and 4 only

(d) 2, 3 and 4 only

84. With reference to the characteristics of hot deserts, consider the following statements:

1. Most of the hot deserts lie between 15° and 30° parallels of latitude in both the hemispheres.
2. They lie in the western parts of continents where trade winds are off shore.
3. They are under the influence of cold ocean currents.

Which of the statements given above is/are correct?

(a) 1 only

(b) 1 and 3 only

(c) 2 and 3 only

(d) 1, 2 and 3

85. Which of the following statements is/are correct regarding the composition of Atmosphere?

1. Oxygen is present only in the troposphere.
2. Carbon dioxide is the most abundant gas after Nitrogen and Oxygen.
3. Higher composition of dust particles is found in sub tropical regions when compared to tropical regions.

Select the correct answer using the code given below.

(a) 1 and 3 only

(b) 2 only

(c) 1 and 2 only

(d) 3 only

86. Which of the following vary with temperature?

1. Humidity
2. Atmospheric Stability
3. Cloud formation
4. Precipitation

Select the correct answer using the code given below.

(a) 1, 3 and 4 only

(b) 1 and 2 only

(c) 2, 3 and 4 only

(d) 1, 2, 3 and 4

87. Which of the following are the useful applications of tides?

1. Navigation
2. Desilting of sediments from river estuaries
3. Generation of electricity

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

88. Consider the following statements regarding heating of Earth's atmosphere:

1. Atmosphere gets heated through convection till the Troposphere.
2. Atmosphere gets heated by short wave terrestrial radiation.
3. Heating of atmosphere through conduction is limited to only lower layers of atmosphere.

Which of the statements given above is/are correct?

(a) 1 and 3 only

(b) 2 only

(c) 1 and 2 only

(d) 3 only

89. As we go up in the mountains, one find it difficult to breathe. Which of the following is the reason behind?

- (a) With decrease in temperature, air becomes denser at higher latitudes.
- (b) The air becomes thinner at higher altitudes.
- (c) The air pressure is low at higher altitudes.
- (d) Both (b) and (c)

90. Identify the ocean current based on the following characteristics.

- 1. It is formed by the eastward deflection of Gulf Stream.
- 2. Canaries current, a cold current along the Iberian Coast is formed because of it.
- 3. It helps in moderating the climate of Europe.

Select the correct answer using the code given below.

- (a) Benguela current (b) Labrador current (c) North Atlantic Drift (d) Kuroshio current

91. On the surface of earth, we do not experience strong upward winds because:

- (a) The vertical pressure gradient force of air is balanced by the frictional force.
- (b) There is no rapid change in atmospheric pressure vertically.
- (c) The vertical pressure gradient force of air is balanced by the opposite gravitational force.
- (d) The air near the surface having more water molecules is heavy to move upward.

92. Which of the following are the effects of ocean currents?

- 1. Arid areas in the west coasts of the continents in tropical and subtropical latitudes.
- 2. Narrow annual range of temperature in the mid and high latitude on the western coast
- 3. Replenishment of oxygen and the growth of planktons.

Select the correct answer using the codes given below.

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

93. With reference to a particular region, consider the following statements:

- 1. The temperature of the region is uniformly high. 2. Annual range of temperature is very small.
- 3. Rainfall occurs in every month of the year.

The above statements describe which one of the following types of climate?

- (a) Tropical Monsoon climate (b) Tropical wet and dry climate
- (c) Tropical wet climate (d) Humid subtropical climate

94. The effectiveness of any Green House Gas (GHG) molecules depends on which of the following factors?

- 1. Magnitude of its concentration 2. Its lifetime in the atmosphere
- 3. Wavelength of the radiation it absorbs

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

95. With reference to Coriolis force, which of the following statements is/are correct?

- 1. The magnitude of Coriolis force is directly proportional to the wind speed.
- 2. The Coriolis force is maximum at the equator.
- 3. The Coriolis force will vanish if the earth stops rotating around its axis.

Select the correct answer using the code given below.

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

96. Which of the following is/are necessary to cause change of seasons on earth?

- 1. Earth' revolution 2. Earth's rotation 3. Inclination of earth's axis

Select the correct answer using the code given below.

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

97. Consider the following pairs:

Name of Tropical Cyclones	Region
1. Typhoons:	Indian Ocean
2. Cyclones:	South China Sea
3. Hurricane:	United States of America
4. Willy-willy	Australia

Which of the above mentioned pairs are correctly matched?

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

98. Consider the following statements:

1. The highest sea surface temperature is recorded at the equator.
2. The oceans of northern hemisphere have lower temperature compared to that southern hemisphere.

Which of the statements given above is/are not correct?

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

99. Which one of the following statement is correct?

1. West coasts of the continents in tropical and sub-tropical latitudes (Except close to equator) are bordered by warm waters.
2. The mixing of warm and cold current results in best fishing grounds of world.

Select the correct options:

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

100. What is/are the reason for the having low pressure in the Equatorial region?

- (a.) Due to the vertical rays of the sun here, there is intense heating.
- (b.) Due to earth's rotation, the winds surrounding the Polar region blow towards the Equator.
- (c.) At about 30°North and South of Equator lies the area where the ascending equatorial air currents descend.
- (d.) All of the above

ALL THE BEST