



All India Civil Services Coaching Centre

(Under the aegis of Government of Tamil Nadu)

TEST BOOKLET

Geography

Time Allowed: 2 Hours

Maximum Marks: 200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET
2. You have to enter your Name on the Test Booklet
3. This Test Book contains 100 items (questions). Each it comprises four responses (answers). You will select the response, which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response, which you consider the best. In any case, choose **ONLY ONE** response for each item.
4. You have to mark all your response **ONLY** on the separate sheet provided along with the Test Booklet.
5. All items Carry equal marks. There will be **penalty (negative marking)** for wrong answers marked by you in the Answer sheet.
6. There are four alternatives for the answers to every question. For each question for which a wrong answer has been given by the candidate, one third ($\frac{1}{3}$) of the marks assigned to that question will be deducted as penalty.
7. If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will same penalty as above for that question.
8. If a question is left blank i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO



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1. Consider the statements.
 1. The process in which sedimentary fragments becomes compact to form rocks is called lithification.
 2. The process of metamorphism in which rocks, grains or minerals get arranged in layers is called foliation.
 3. The arrangement of different minerals into alternating thin to thick layers is called banding.The incorrect statements are:
 - (a) 1 only
 - (b) 2 and 3 only
 - (c) All the above
 - (d) None of the above
2. Consider the statements.
 1. Mass movements transfer mass of rock debris down the slopes under direct influence of gravity.
 2. Geomorphic agents actively participate in the process of mass movements.
 3. Mass movements are very active over weathered slopes rather than over un-weathered materials.The correct statements are:
 - (a) 1 and 2
 - (b) 2 and 3
 - (c) 1 and 3
 - (d) All the above
3. Choose the correct statements.
 1. Hardpans are formed in tropical climates and in areas with intermediate precipitation condition.
 2. Excessive evaporation over precipitation in arid regions results in formation of calcium carbonate nodules or kanker.Choose the correct statement(s)
 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
4. Consider the statements.
 1. Equatorial region soils are poor in organic matter.
 2. Soils in the sub-arctic and tundra climates have peaty soil which are rich in organic matter.Code:
 - (a) 1 is incorrect
 - (b) 2 is incorrect
 - (c) Both are incorrect
 - (d) Neither 1 nor 2 is incorrect
5. Consider the following statements:
 1. The release of the energy locked up between the plate boundaries takes place at the epicenter.
 2. S-Waves travel through solids while P-waves can travel through solid, liquid or gaseous medium.
 3. The intensity of earthquakes is measured using Mercalli scale which records the visible damage caused by the event.
 4. The shadow zone of P-waves are larger in extent and cover over 40% of the earth's surface.Choose the correct statement(s):
 - (a) 2, 3 and 4
 - (b) 2 and 3
 - (c) 1, 2 and 3
 - (d) All the above
6. Which of the following statement/s are correct?
 1. The point on the surface of the earth where first earthquake wave is experienced is called focus.

2. The earthquake waves travels faster in rarer medium compared to denser medium.
3. P waves vibrate parallel to the direction of wave.
4. The shadow zone of S-wave is larger than the P-waves.

Code:

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

7. Consider the following statements:

1. Tropic of Capricorn is passing through Atacama Desert.
2. Among the all south American capital cities Lima is located nearest to the equator.

Which of the given above statements is/are correct?

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

8. Consider the following pairs:

River delta	Country
1. Zambezi river delta -	Tanzania
2. Congo river delta -	Angola
3. Mekong river delta -	Laos
4. Danube river delta -	Romania

Which of the given above pairs are correctly matched?

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

9. River Niger is one of the Longest in Africa and important river in Western Africa it originates in Guinea Highlands and it drains into ocean at which of the following coast.

- (a) Gold Coast
- (b) Ivory Coast
- (c) Slave Coast
- (d) Grain Coast

10. Consider the following plate boundaries:

1. African and Arabian plate boundary

2. Australian and Antarctic plate boundary
 3. North American and Pacific plate boundary
 4. Indian and Eurasian plate boundary.
- Among the above given plate boundaries which are called as Divergent plate boundaries?

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

11. Consider the following statements:

1. Red sea and Gulf of Aden are formed by rift valleys.
2. Deep ocean trenches are found only along destructive plate boundaries.
3. Formation of fold mountain is possible only when two continental plates are converge each other.

Which of the given above are correctly matched?

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

12. Which of the following statement/s are correct?

1. Igneous rocks are formed when the solidification of magma takes place only on the surface of the earth.
2. Lithification is a process of formation of Sedimentary rocks.
3. Marble is an example of sedimentary rock.

Codes:

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

13. A large number of hypotheses were put forth by different philosophers and scientists regarding the origin of the earth and one of the earlier and popular hypotheses was the Nebular Hypothesis. Consider the following statements in the context of Nebular Hypothesis.

1. The Nebular Hypothesis regarding the origin of the earth was advanced by the German philosopher Immanuel Kant.
 2. The hypothesis considered that the planets were formed out of a cloud of material associated with a youthful sun.
- Which of the above statements is / are correct?
- (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
14. The interior structure of the Earth is layered in spherical shells and these layers can be defined by their chemical properties. Earth has an outer silicate solid crust, a highly viscous mantle and a liquid outer core. Consider the following observations in this context.
1. The Crust is the outermost solid part of the earth and the Oceanic crust is thinner as compared to the Continental crust.
 2. The portion of the interior beyond the crust is called Mantle and the upper portion of the mantle is called Asthenosphere.
 3. The part between the Crust and the uppermost part of the mantle are called Lithosphere.
- Which of the above statements are correct?
- (a) 1 and 2 only
 - (b) 1 and 3 only
 - (c) 1, 2 and 3
 - (d) 2 only
15. The theory of plate tectonics proposes that the earth's lithosphere is divided into seven major and some minor plates and -young Fold Mountain ridges, trenches, or faults surround these major plates. Match the following plates with its boundaries.
1. **Cocos plate:** Between Central America and Pacific plate.
 2. **Nazca plate:** Between South America and Pacific plate.
 3. **Caroline plate:** Between the Philippine and Indian plate.
 4. **Philippine plate:** Between the Asiatic and Pacific plate.
- Which of the above are correctly matched?
- (a) 1 and 2 only
 - (b) 3 and 4 only
 - (c) 1, 2 and 3 only
 - (d) 1, 2, 3 and 4
16. The Camel is well suited for the desert environment because
1. It has low surface area to the body size ratio.
 2. It excretes highly concentrated urine
 3. It lose water from body tissue not from blood.
 4. It has a coat skin that prevents loss of moisture.
- Which of the statements given above is/ are correct?
- (a) 1, 2 and 3 only
 - (b) 1, 2 and 4 only
 - (c) 1 and 4 only
 - (d) 2 and 4 only
17. A gorge is a deep valley with very steep to straight sides. Which among the following features distinguishes a canyon from a gorge?
1. Canyons have steep step-like side slopes.
 2. Canyons have uniform width from top to bottom.
 3. Canyons form in horizontal bedded sedimentary rocks.
 4. Canyons are wider at its top then at its bottom.
- Codes:**
- (a) 1, 2 and 3
 - (b) 1, 3 and 4
 - (c) 2, 3 and 4
 - (d) 1, 2 and 4
18. Consider the following statements.
1. Alluvial fans are formed when streams flowing from higher levels break into foot slope plains of low gradient
 2. Alluvial fans in humid areas show normally high cones with steep slopes
 3. Arid and semi-arid areas develop low cones with gentle slopes

Choose the correct statement(s)

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

19. Drumlins form due to dumping of rock debris beneath heavily loaded ice through fissures in the glacier. Choose the correct statements.

- 1. Drumlins are smooth oval shaped ridge like features composed mainly of glacial
- 2. The stoss end of a drumlin is blunt due to pushing by moving ice
- 3. The long axes of drumlins are perpendicular to the direction of ice movement.

Codes:

- (a) 1 and 2
- (b) 1 and 3
- (c) 2 and 3
- (d) All the above

20. Consider the statements:

- 1. The atmosphere is transparent to long wave radiations.
- 2. The colouration of the sky is due to scattering of light within the atmosphere.
- 3. Equator receives maximum amount of insolation.

The correct statement(s) is/are:

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

21. Consider the following factors:

- 1. Rotation of the Earth
- 2. Air Pressure and wind
- 3. Density of ocean water
- 4. Revolution of the Earth

Which of the above factors influence the ocean currents?

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

22. Which among the following evidence support the Continental drift theory?

- 1. The matching of continents fits (Jig-saw-fit)
- 2. Rocks of same age across the Oceans
- 3. Distribution of gas
- 4. Presence of mid-oceanic ridges

Codes:

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

23. Manufacturing sector is an important sector in the modern day economy. Consider the following statements in this regard.

- 1. Industries are classified on the basis of the use of their inputs into
 - (i) basic goods industries,
 - (ii) capital goods industries
 - (iii) intermediate goods industries, and
 - (iv) consumer goods industries.
- 2. Industries with weight losing raw materials are located close to the source of raw materials.
- 3. History has no role in deciding location of Industries.

Which of these are not correct?

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

24. Which of the following land use patterns are not correctly matched?

- 1. Culturable wasteland - Not under cultivation for 5 years or more
- 2. Fallow other than current fallow – Left uncultivated for more than 6 months
- 3. Current Fallow - Land which cannot be cultivated.
- 4. Forest Land - Land covered by multiple levels of tree cover.

Codes:

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

25. The Atmosphere consists of different layers with varying density and temperature. Consider the following statements in the context Atmosphere.

1. The Density of the Atmosphere is highest near tire surface of the earth and increases with increase altitude.
2. The layers of Atmosphere, in order, are stratosphere, troposphere, mesosphere, ionosphere and exosphere.
3. The thickness of the troposphere is thinnest at the equator and thickest at both the southern and northern pole regions.

Which of the above statements are correct?

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

26. A tropical cyclone is a rapidly-rotating storm system characterized by a low-pressure centre, strong winds, and a spiral arrangement of thunderstorms that produce heavy rain. Consider the following situations in this context.

1. Presence of Coriolis force.
2. Variations in the vertical wind speed.
3. A pre-existing weak low-pressure area.
4. A large sea surface with temperature Higher than 27°C

Which of the above is/are the favourable conditions for the formation and intensification of tropical storms?

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

27. Cloud is a mass of minute water droplets or tiny crystals of ice formed by the condensation of the water vapour in free air at considerable elevations. Consider the following observations in context of different types of clouds.

1. Cirrus clouds are formed at high altitudes and they are always white in colour while Cumulus clouds look like cotton wool with a flat base.

2. Stratus clouds covering large portions of the sky and they are formed due to loss of heat or the mixing of air masses with different temperatures.
3. Nimbus clouds are black in colour and very near to the surface of the earth having shapeless masses of thick vapour.

Which of the above statements is/are correct?

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

28. Sudden contact between dry and moist air masses gives rise to local storms of great intensity with sufficient shower. Consider the following information in this context.

1. Mango Showers are pre-monsoon showers which are a common phenomena in Kerala and Karnataka.
2. Nor Westers are dreaded evening Thunder storms usually endemic to eastern part of India and is helpful for tea, jute and rice cultivation.

Which of the above statements is/are correct?

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

29. The easterlies from either side of the equator converge in the Inter Tropical Convergence Zone and such circulations from the surface upwards and vice-versa are called cells. Consider the following statements in this context.

1. The Hadley Cell is observed in the sub polar regions where the easterlies from either side of the equator converge.
2. The Ferrell cell are located in the tropics where the easterlies from either side of the its equator diverge.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2

(d) Neither 1 nor 2

30. Consider the following:

1. Birds
2. High Altitude Balloon
3. Aeroplane
4. Ozone

Which of the above are found in Stratosphere?

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

31. Which of the following statements is / are correct?

1. The tropical Cyclones of China Sea are called typhoons.
2. The tropical cyclones of the West Indies are called tornadoes.
3. The tropical Cyclones of Australia are called willy-willies.
4. Formation of an anticyclone results in stormy weather condition

Select the correct answer using the code given below:

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

32. Consider the following statements on Ports in India:

1. Tamil Nadu has the most number of Major ports.
2. Gujarat has more number of Minor ports than Maharashtra.
3. Kolkata port is India's only riverine port.

Which of the statements given above is/are correct?

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

33. Consider the following statements about energy resources:

1. Geothermal energy is generated from the magma exist in the mantle and lower crust of the earth.

2. Tidal energy is dependent on position of the Moon and Sun with respect to the Earth and local geography of the sea floor and coastlines.

3. Radiant energy is generated from the energy of electromagnetic and gravitational radiation.

Which of the above statements is/are correct?

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

34. Which of the following statements related to the applications of nano-technology in agriculture is/are correct?

1. Nano capsules for pesticide delivery prevent groundwater contamination.
2. Nano sensors are used for monitoring soil conditions and plant growth.
3. Nano particles can be used as gelation and viscosifying agents.

Codes:

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

35. Which of the following statement(s) is/are correct?

1. Net sown area is greater than or equal to gross cropped area.
2. Cropping intensity is in %age of gross cropped area/net sown area.
3. Net Irrigated Area depicts total area under crops irrigated twice in a year by any source.

Codes:

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

36. Which of the following statements with respect to land-man ratio is/are incorrect?

1. It is the ratio between the habitable area and the total population of a country.
2. Arable Land-man ratio is generally

favourable in India as net sown area is larger as compared to other developed nations.

Choose the correct answer from below given options:

- (a) Only 1
- (b) Only 2
- (c) Both
- (d) None

37. Which of the following statements is/are true about the Urban Heat Island?

- 1. In the Urban Heat Island the temperature contrast with the surrounding is higher during night as compared to the day.
- 2. Regular blowing of wind will increase the effect of urban heat island.
- 3. Concrete and asphalt used in construction activities support the formation of urban heat island.
- 4. It increases the occurrence of heat waves in summer.

Codes:

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

38. Which of the following statements is/are true about concept of conurbation?

- 1. It is a region comprising a number of cities which have merged through population growth and physical expansion.
- 2. It is a region in which administration of the cities or towns differs but social structure and culture remain identical.
- 3. It has multiple labour markets in disintegrated form.

Codes:

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

39. Which of the following statements is/are true about rural urban migration?

- 1. Rural urban migration leads to the feminization of agriculture.

2. Rural urban migration increases the remittances to home and decreases the child labour and crime rates in cities.

Codes:

- (a) Only 1
- (b) Only 2
- (c) Both
- (d) None

40. Consider the following statements related to the District Mineral Foundation:

- 1. It will work for the interest and benefit of persons and areas affected by mining related operations.
- 2. Its operation will be defined under the jurisdiction of the relevant State Government.
- 3. It will be funded by royalty on minerals and will be treated as extra budgetary resources.

Which of the above statements is/are correct?

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

41. Referring to watershed management, consider the following statements:

- 1. Watershed management emphasises on scientific soil and water conservation.
- 2. The aim is to develop primary resources of land and water to produce secondary resources for maintaining ecological balance.
- 3. Watershed management increases the life of the downstream dam and reservoirs.

Which of the above statements are correct?

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

42. National Hydrology Project has been launched to improve the gathering of Hydro meteorological data. Which of the following are the proposed benefits of it?

- 1. It will improve the assessment of surface and ground water resources in a river basin for better planning & allocation of resources.

2. It will help in mapping of flood inundation areas for use by the disaster management authorities.
3. It will increase the lead time in flood forecast.
4. It will improve reservoir operations for drought management.

Codes:

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

43. Consider the following statements related to the Diamond Quadrilateral Infrastructure Project:

1. It will establish High Speed Railway (HSR) network in India connecting the four metro cities of the country.
2. The project will be operated by the respective state government.
3. It will establish first bullet train corridor on Mumbai-Chennai section.

Which of the above stated features is/are correct?

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

44. Which of the following challenges is/are faced by the Cotton textile industries in India?

1. Frequent Strike and lockouts due to poor working conditions.
2. Competition in the international markets.
3. Shortage of raw materials.
4. Absolute machinery.

Codes:

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

45. A cluster of enterprises that can provide assistance to each other through shared talents, services, and facilities. Which of the following are the benefits of Agglomeration?

1. It leads to increment in flow of new and innovative ideas occur.

2. It leads to reduction in price of production because of clustering of economic activity.
3. It increases the flow of labour and reduces competition.

Codes:

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

46. Which of the following method is used for determining the rate of motion of oceanic plates?

- (a) By ocean-floor magnetic strip which records the flip-flops in the Earth's magnetic field.
- (b) By geologic mapping studies.
- (c) By means of ground-based or space based geodetic measurements.
- (d) All of the above.

47. Which of the following statements related to the salinity is /are correct?

1. North Sea records higher salinity due to more saline water brought by the North Atlantic Drift.
2. Red Sea records lower salinity due to enormous fresh water influx by rivers.
3. Mediterranean Sea records higher salinity due to high evaporation.

Codes:

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

48. Which of the following pair(s) is/are correct?

1. Continental Margins: Deep oceanic trenches are found here.
2. Abyssal Plains: It is the zone of intense volcanic activity.
3. Mid-oceanic ridges: Mountain range present under the sea where the continental sediments get deposited.

Codes:

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

49. Which of the following statement is/are true about the ocean currents?

1. Pressure gradient, temperature and salinity differences lead to formation of Ocean currents.
2. Ocean currents help in navigation and influence the weather of the region.
3. Unlike winds they are not influenced by Coriolis force.

Codes:

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

50. Which one of the following is/are not correct?

1. The four major coral reef areas identified for intensive conservation and management are Gulf of Mannar, Gulf of Kutch, Lakshadweep and Andaman & Nicobar Islands.
2. For encouraging targeted research on both hard and soft corals in the country, a National Coral Reef Research Centre has been established at Kavarati, Lakshadweep.

Codes:

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither of the above

51. Consider the following statements:

1. The Biosphere Reserves are recognized within the framework of UNESCO'S Man and Biosphere Programme.
2. The government of Karnataka has notified the "Tamarind Site" at Nallur in Devanahalli Taluk of Bangalore as the first Biodiversity Heritage Site in the country under the Biological Diversity Act.
3. Norwegian and Indian government is developing a project which aims at technical and institutional cooperation for establishment of a centre for Biodiversity Polity and Law (CEBPOL) in Bangalore.

Which of the above statements is/are correct?

- (a) 1 and 2
- (b) Only 2

- (c) Only 3
- (d) 1 and 3

52. During pre-monsoon and post-monsoon seasons in the North Indian Ocean more cyclones form in the Bay of Bengal compared with the Arabian Sea. But recently more cyclones form in the Arabian Sea than usual. Why?

- (a) Arabian Sea is warmer than Bay of Bengal during this season.
- (b) Tropical easterly jet streams are not favouring cyclone formation in Bay of Bengal.
- (c) There is a large scale downward Wind movement over Bay of Bengal which will not allow for cyclone formation.
- (d) EL Nino Modoki is conducive for cyclone formation in Arabian Sea.

53. Consider the following statement regarding the difference between west flowing rivers and east flowing rivers in Indian Peninsula.

1. East flowing rivers forms delta whereas west flowing rivers forms estuaries
2. East flowing rivers have large tributaries whereas west flowing rivers are not have any major tributaries
3. East flowing rivers are flowing in deep trough but west flowing rivers flow in gentle slope.

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

54. The Himalaya is divided into four major geological sections. Choose among the following which is not one of them?

- (a) Nepal Himalayas between Kali and Tista
- (b) Punjab Himalayas between Indus and Sutlej
- (c) Garo-Khasi Himalayas between Tista and Brahmaputra
- (d) Assam-Himalayas between Tista and Dihang

55. Consider the following statements

1. Both Narcondam Island and Barren Island are active volcanoes in Andaman and Nicobar group of Islands.
2. India's southernmost point Indira point is situated on the southern tip of the Car Nicobar Island.

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. Consider the following statements

1. In India, Coromandel Coast is the only region which receives rainfall during winter season.
2. The Diurnal temperature in India is highest in Jammu and Kashmir.

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

57. Which one of the following is not difference between Mist and Fog?

- (a) Mist have more visibility than fog.
- (b) Fog water droplets size is more than mist.
- (c) Fog is form of cloud, where as mist is form of aerosols
- (d) Fog occurs in the higher altitude in atmosphere, mist occurs in lower altitude.

58. Which of the following processes is a gradational process?

1. Mountain building
2. Up warping
3. Erosion
4. Volcanism

Codes:

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

59. Thickness of Troposphere is more at the equator than at poles. Why?

1. Sun shines vertically overhead at the equator.
2. More weather phenomenon take place at Equator than at poles.
3. Presence of strong convectional current at equator.
4. More water vapour and dust particles are present at the equator.

Codes:

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

60. Consider the following factors:

1. The Angle of incidence
2. Length of the day
3. Transparency of the atmosphere
4. Type of the earth surface

Which of the above factors are responsible for amount of insolation?

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

61. Consider the following Statements:

1. Polar easterlies which blow out from the polar High pressure belt to temperate low pressure belt are more regular in the northern Hemisphere than southern Hemisphere.
2. The wind flowing from subtropical high pressure belt to equatorial low pressure belt will have maximum moisture holding capacity.

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

62. Consider the following factors:

1. Distance from the equator
2. Altitude and Topography influence
3. Local weather conditions
4. Proximity to the sea

Which of the above factors are major determinants of climate of a particular location?

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

63. Consider the following conditions:

1. There should be mountain barrier across the wind direction
2. There should be sufficient vegetation cover in the mountain
3. The mountain should be away from the coast
4. The mountain should be more in height

Which of the above conditions are necessary for the occurrence of Orographic rainfall?

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

64. Consider the following statements regarding pressure belts:

1. They are not static but dynamic in nature.
2. The movement of Sun causes shifting of thermally induced pressure belts only
3. They also one of the factors that controls rainfall distribution on the continents.

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

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

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

1. It is an index of the amount of water vapour present in the atmosphere.
2. It measures the readiness with which vapour will condense from the air.
3. The value of the relative humidity varies inversely with temperature and rises during nights.

4. It is the ratio of the mass or weight of water vapour per unit volume of air measured in grams per cube meter.

Select the correct answer using the code given below:

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

66. What would be the influence on the weather conditions when in mid-winter a feeble high pressure develops over the north-western part of India?

1. High and dry winds would blow outward from this high pressure area.
2. The northern plain would become cold.
3. Scorching winds (locally called loo) would blow during the day-time.
4. There would be torrential rains brought by thunderstorms.

Select the correct answer using the code given below:

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

67. Consider the following statements:

1. The Barail range separates Naga Hills from Manipur Hills.
2. Patkai Bum forms the international boundary between Arunachal Pradesh and Myanmar.
3. The elevation of the Purvanchal Hills increase as we move from north to south.

Which of the above statements is/are correct?

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

68. Consider the following statements:

1. The Bhabar forms the northern boundary of the Great Plains and is marked by dry river courses except in the rainy season.

2. The Bhangar forms the alluvial terrace along the river banks
3. The terai land gives good crops of sugarcane, rice and wheat after been reclaimed and turned into agricultural land.

Which of the above statements is / are correct?

- (a) 1 and 2
- (b) Only 2
- (c) 1 and 3
- (d) All the above

69. Which of the following statements is / are not correct?

1. The Satpura range acts as a watershed between the Ganga system and the river systems of South India.
2. The Southern part of the Western Ghats is separated from the main Sahyadri range by Palghat Gap.
3. The Eastern Ghats exhibit its true mountain character between the Godavari and Krishna river.

Codes:

- (a) 1 and 2
- (b) 1 and 3
- (c) Only 2
- (d) Neither of the above

70. Which of the following statements is/are not correct?

1. Little Andaman is separated from the Great Andamans by the Duncan Passage.
2. The Great Nicobar is the northernmost island in the Nicobar group of islands.
3. Saddle peak is the highest peak is the Andaman & Nicobar islands and is located in the Middle Andaman.
4. The largest and the most advanced island among the Lakshadweep islands is the Minicoy Island.

Codes:

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

71. Consider the following pairs:

Protected area

Well known for

- | | |
|---|----------------------------|
| 1. Padmaja Naidu
Himalayan Zoological park, Darjeeling | - White tigers |
| 2. Nandankanan, Odisha | - Red Panda |
| 3. Gahirmatha, Odisha | - Olive Redley sea turtles |

Which of the pairs given above is/are not correctly matched?

- (a) 1 only
- (b) 1 and 2
- (c) 2 only
- (d) All the above

72. Xerophytic vegetation is a characteristic feature of

- (a) Chhotanagpur plateau
- (b) Khasi hills
- (c) Eastern ghats
- (d) Kuchchh

73. Two regions of India, with developed resources, but economically backward, are:

- (a) Northern Plain and Assam
- (b) Eastern and Western Himalayas
- (c) Chota Nagpur Plateau and Bastar
- (d) Kathiawar and Thar Desert

74. Consider the following statements:

1. The Pacific plate is the only plate composed almost entirely of oceanic crust.
2. No divergent plate boundary found in Indian Ocean.

Which of the given above statements is / are correct?

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

75. Consider the following statements:

1. Abyssal plains or deep sea are tectonically inactive areas.
2. Abyssal hills are formed due to convergence of two oceanic plates.

Which of the given above statements is /are correct?

- (a) 1 Only

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

76. Consider the following Statements:

1. Ocean trenches are produced by the subduction of oceanic crust under other oceanic crust whereas ocean ridges are formed by subduction of oceanic crust under continental crust.
2. Dogger bank and Grand bank are important fishing grounds located in Northern part of Pacific ocean.

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

77. Ocean water is more salinity than the river water. Due to variation in the salt, which one of the following is/are very high in ocean water compared to river water?

- (a) Sodium
- (b) Magnesium
- (c) Chlorine
- (d) Calcium

78. UNCLOS is the Authority to classify the world ocean into different zones with reference to this which one of the following actual width EEZ (Economic Exclusive Zone)?

- (a) 12 nautical miles
- (b) 24 nautical miles
- (c) 200 nautical miles
- (d) 176 nautical miles

79. A season is a division of the year marked by changes in weather, ecology and hours of daylight. These seasons are caused by

- (a) Revolution of the earth on its inclined axis
- (b) Different intensity of solar insolation
- (c) Positions of the earth from the sun during the annual revolution.
- (d) Rotation of the earth on its axis.

80. Consider the following pairs of convergent plate boundaries

1. Ocean – Continent - Resulted in Mid ocean Ridges
 2. Ocean – Ocean - Deep trenches in arc shape.
 3. Continent – Continent - Rift Valleys
- Which of the above pairs are correctly matched?
- (a) 1 only
 - (b) 2 only
 - (c) 3 only
 - (d) None of these

81. The Coriolis Effect is

- (a) A result of earth's rotation from the east to the west and cause objects to curve to the right in the Northern Hemisphere.
- (b) A result of earth's rotation from the west to the east and causes object to curve to the right in the Southern Hemisphere.
- (c) A result of earth's rotation from the east to the west and causes objects to curve to the left in the Southern Hemisphere.
- (d) A result of earth's rotation from the west to east and causes object to curve to the right in the Northern Hemisphere.

82. Which of the following currents does not belong with the others as part the same gyre?

- (a) Brazil current
- (b) West Wind Drift
- (c) Benguela Current
- (d) Agulhas Current

83. Consider the following Conditions for the growth of coral polyps.

1. To survive corals are required 20° C ocean temperature.
2. There should be clean water without salinity.
3. Ocean currents and waves are not favourable for coral growth.

Which of the statements given above is/are Correct?

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

(d) 1, 2 and 3

84. Consider the following Trenches

1. Mariana
2. Tonga
3. Aleutian
4. Java Trench
5. Tizard

Which of the above trenches are not located in Pacific Ocean?

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

85. Consider the following Conditions:

1. High temperature
2. Low Precipitation
3. Stable Air mass
4. Low evaporation

Which of the above conditions are necessary for high salinity of ocean waters?

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

86. Consider the following Statements

1. Australia
2. Mexico
3. Philippines
4. United States

Which of the above are parts of the Pacific Ring of Fire?

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

87. Which of the following statements is/are true about working population?

1. Working for 183 days in a year forms the boundary line between a main worker and marginal worker.
2. Workers migrating from one region to another leads to induced population growth rate.
3. Both present and future working population can be derived from the population pyramid.

4. Regions with low socio-economic development has low work participation rate in unskilled work.

Codes:

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

88. With reference to sericulture in India, which of the following statements is/are correct?

1. India is world's largest producer of silk.
2. Tassar, Eri and Muga silk only are produced in India.

Select the correct option from codes given below:

- (a) Only 1
- (b) Only 2
- (c) Both
- (d) None

89. Which of the following statements regarding agricultural census are correct?

1. The Agricultural Census is conducted every four years.
2. The Census collects the data on structure of agricultural operational holdings.
3. Maximum number of operational land holdings in India is small holdings of size 1 to 2 hectares.

Codes:

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

90. Which of the following is/are the negative impacts of Tourism sector in India?

1. Unchecked tourism development lead to degradation of Land, soil and water.
2. Tourism may erode traditional values by introducing foreign elements which are in conflict with the heritage of the region.
3. Tourism reduces financial support for the conservation of ecosystems and natural resource management.

Codes:

- (a) 1 and 2

- (b) Only 2
- (c) 2 and 3
- (d) All

91. A rapid transit railway system is an electric passenger railway in an urban area with a high capacity and frequency, and grade separation from other traffic. The benefits of it are:

1. Requires 1/5th energy per passenger km compared to road-based transport system.
2. Causes less noise, no air pollution and are eco friendly transport system.
3. Cost of construction is less than that of road and railway network.

Which of the above stated benefits are correct?

- (a) 1 & 2
- (b) 2 & 3
- (c) 1 & 3
- (d) All

92. With reference to Bauxite, consider the following statements:

1. Bauxite is mainly concentrated in the tropical regions of the world.
2. Extraction of aluminium from bauxite largely depends on availability of electricity.

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

93. Which of the following cities are famous industrial centres for leather and leather products, in India?

1. Kolkata
2. Kanpur
3. Agra
4. Ranipet

Select the correct answer using the code given below.

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

94. Consider the following pairs: Crop Climatic region

1. Sugarcane : Temperate grasslands
2. Olive : Mediterranean
3. Cocoa : Equatorial region

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

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

95. Animal rearing is not practised in the Mediterranean region due to which of the following reasons?

- (a) Long and severe winters prohibit the growth of grasses.
- (b) Luxuriant growth of forests inhibit the growth of grasses.
- (c) Climatic conditions are not suitable for grasses as rainfall occurs in winter season.
- (d) None of the above.

96. Equatorial regions have great potential of timber resources but its commercial exploitation is still under developed because:

1. same species of trees do not occur in homogeneous stands.
2. there is no frozen surface to facilitate logging.
3. tropical hardwood found here is too heavy to float in the river.

Which of the statements given above is/are correct?

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

97. Which among the following factors is/are responsible for land degradation in irrigated areas in India?

1. Waterlogging
2. Excessive use of pesticides
3. Monocropping

Select the correct answer using the code given below.

- (a) 1 and 2 only

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

98. Which of the following conditions are suitable for wheat cultivation?

1. Cool weather and sufficient moisture in the soil during germination
2. Annual rainfall between 150-200 cm.
3. Clear skies at the time of ripening.
4. Loamy and chernozem soils.

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

99. With reference to nuclear energy resources in India, Uranium deposits are found in which of the following locations?

1. Udaipur district of Rajasthan
2. Durg district of Chhattisgarh
3. Kullu district of Himachal Pradesh
4. Bhandara district of Maharashtra

Select the correct answer using the code given below.

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

100. With reference to 'Truck Farming', consider the following statements:

1. It involves growing of food crops on trucks which are transported to irrigated areas.
2. It is done in regions which specialize only in the farming of vegetables.

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