

Test No.

**04**

— IAS 2022 —

# Prelims/Mains TEST SERIES

## General Studies

**GENERAL STUDIES****Time Allowed: Two Hour****Maximum Marks: 200****I N S T R U C T I O N S**

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. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number carefully without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the test booklet in the Box provided alongside. **DO NOT** write anything else on the Test Booklet.
4. This Test Booklet contains **100** items (questions). Each item is printed in English. Each item 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.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet in response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers:**  
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
  - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
  - (ii) 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 be same penalty as above to that question.
  - (iii) 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**

1. They are depositional soils, transported and deposited by rivers and streams . In the Peninsular region, they are found in deltas of the east coast and in the river valleys. These soils vary in nature from sandy loam to clay. They are generally rich in potash but poor in phosphorous . The shades of these soils varies from light Grey to ash Grey and they are seriously cultivated.
- Which of the following soils matches the above description?
- (a) Black Soils  
(b) Alluvial Soils  
(c) Peaty Soils  
(d) Laterite Soils
2. Which of the following are glacial landforms?
1. Cirque  
2. Fjord  
3. Horns  
4. Stack
- Select the correct answer using the code given below.
- (a) 2 and 4 only  
(b) 1 and 2 only  
(c) 1, 2 and 3 only  
(d) 1, 3 and 4 only
3. Consider the following methods:
1. Counter Ploughing  
2. Strip Cropping  
3. Shelterbelts  
4. Cover Cropping  
5. Mixed Farming
- Which of the above-mentioned methods can act as a remedy to reduce soil erosion?
- (a) 1, 2, 4 and 5 only  
(b) 1, 3 and 4 only  
(c) 2, 3 and 5 only  
(d) 1, 2, 3, 4 and 5
4. Recently there are some significant advances in the field of mRNA technology . Read the following statements regarding mRNA technology:
1. It is a single-stranded RNA molecule that is complementary to one of the DNA strands of a gene.  
2. mRNA can help reduce time and cost of vaccine development.  
3. It can be used to treat genetic disorders.
- 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
5. Read the following statements regarding semi-evergreen forests of India:
1. These forests have a mixture of evergreen and moist deciduous trees.  
2. It exists in the Andaman, the Western Ghats, the Northeastern region, Bengal, and Orissa.  
3. The rainfall is between 200 cm to 250 cm.  
4. Orchids, Kadam, Laurel, white cedar, hillocks are the main species of these forests.
- Which of the statements mentioned above are correct?
- (a) 1 and 2 only  
(b) 2, 3 and 4 only  
(c) 1 and 3 only  
(d) 1, 2, 3 and 4
6. Recently National Crisis Management Committee was in the news. It is headed by:
- (a) Prime Minister  
(b) Union Home Minister  
(c) Minister of Environment, Forest and Climate Change  
(d) Cabinet Secretary

7. The Forest Policy (1988), aims at:
- Bringing 25 percent of the geographical area under forest cover.
  - Conserving the natural heritage of the country, its biological diversity, and genetic pool.
  - Increasing the forest cover through social forestry and afforestation on degraded land.
- 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
8. Consider the following differences between P-waves and S-waves:
- S-waves travel much faster than P-waves.
  - Unlike P-waves, the S-waves can travel through gaseous, liquid, and solid materials.
- 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
9. Consider the following statements regarding fringing reefs:
- Fringing reefs are coralline platforms lying close to the shore extending outwards from the mainland.
  - They are sometimes separated from the shore by a shallow lagoon.
- 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
10. During the Cold weather season, Northern India experiences an excessive cold compared to Southern India. Why?
- Northern India experiences the continental type of climate.
  - The snowfall in the nearby Himalayan ranges creates a cold wave situation
  - The cold winds blown from the Caspian Sea to the northern side of India.
- 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
11. *Precipitation in this climatic type is well distributed throughout the year with a summer maximum from convectional rain. The annual temperature range is very high. This climatic type is absent in the southern hemisphere. Lumbering is a major economic activity here.*
- Which of the following types of climate is being described in the above passage?
- (a) Laurentian type of climate  
(b) Siberian type of climate  
(c) British type of climate  
(d) China type of climate
12. Which among the following statements is **not** correct about Black Soils in India?
- (a) They are clayey, deep and impermeable.  
(b) They retain the moisture for a very long time.  
(c) These soils have only developed in the higher areas of the Peninsular plateau.  
(d) They are rich in lime, iron, magnesia and alumina.

13. "They are strong, gusty, hot, dry winds blowing during the day over the north and northwestern India. They form in the regions under the Inter-Tropical Convergence Zone. Direct exposure to these winds can be fatal." Which of the following is being described in the above-given passage?
- Kalbaishakhi
  - Loo
  - Western Disturbances
  - Bardoli Chheerha
14. Consider the following statements regarding Longitudes:
- Longitude is an angular distance, measured in degrees along the equator, east or west of the Prime Meridian.
  - Longitudes are used to determine local time in relation to Greenwich Mean Time.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
15. In the context of The Northern Plains, Bhabar is best described as:
- the belt where most of the streams remerge without having any properly demarcated channels.
  - the belt having of old and new alluvial deposits.
  - the belt where streams and rivers coming from mountains deposit heavy material of rocks and boulders.
  - the belt having characteristic features of mature stage of fluvial erosional and depositional landforms.
16. Consider the following statements in the context of Central Highlands:
- The region of the Central Highlands has undergone metamorphic processes in its geological history.
  - Central Highlands are highly denuded and form discontinuous ranges.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
17. Consider the following pairs:
- | <i>Igneous intrusion</i> | <i>Shape</i>    |
|--------------------------|-----------------|
| 1. Laccolith             | : Lens-shaped   |
| 2. Lopolith              | : Saucer-shaped |
| 3. Phacolith             | : Dome-shaped   |
- Which of the pairs given above is/are correctly matched?
- 2 only
  - 1 and 3 only
  - 1 and 2 only
  - 1, 2 and 3
18. Consider the following statements regarding Temperature Inversion:
- A long winter night with clear skies and still air is an ideal condition for temperature inversion.
  - Temperature inversion is a frequent phenomenon in polar areas.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2

- 19.** Consider the following statements with respect to Indian Monsoon:
1. The Monsoon, unlike the trade winds, are not steady but are pulsating in nature.
  2. The monsoon rainfall has a declining trend with increasing distance from the sea.
  3. Monsoonal rainfall is largely governed by relief or topography.
  4. The retreat of the monsoon is gradual and takes longer than the onset of the monsoon.
- Which of the statements given above are correct?
- (a) 1, 2 and 3 only  
(b) 2 and 4 only  
(c) 1, 3 and 4 only  
(d) 1, 2, 3 and 4
- 20.** Consider the following statements with respect to the season of retreating monsoon:
1. The low-pressure trough of the Ganga plain starts moving southward during the season.
  2. During the season, the cyclonic activity in the Bay of Bengal decreases drastically.
  3. The combination of clear skies, high temperature, and moist land brings about October heat in northern India.
- 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
- 21.** Consider the following statements regarding the peneplain:
1. The penultimate end product of a normal cycle of erosion is called peneplain.
  2. Peneplain is characterized by an undulating surface with residual convexo-concave low hills.
- 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
- 22.** Consider the following statements with reference to tides:
1. Spring tides usually occur twice a month.
  2. An area has a diurnal tidal cycle if it experiences either one high or one low tide every lunar day.
  3. The time between the high tide and low tide when the water level is falling is called flow.
- Which of the statements given above is/are correct?
- (a) 1 only  
(b) 3 only  
(c) 1 and 2 only  
(d) 1, 2 and 3
- 23.** “It originates from the Chemayungdung glacier. It encompasses India’s first riverine island district. It is home to the endangered Gangetic dolphin. The mangrove forest of Sunderbans is spread across its delta. The longest bridge in India has been built over a left-bank tributary of this river.”
- Which of the following rivers is being described in the above-given passage?
- (a) Brahmaputra  
(b) Ganga  
(c) Hooghly  
(d) Teesta

- 24.** Recent studies have revealed that levels of air pollutants such as fine particles (PM<sub>2.5</sub>) and nitrogen dioxide (NO<sub>2</sub>) are increasing in Kanpur and Delhi. With reference to Nitrogen Dioxide a major source of air pollution, consider the following statements:
1. Combustion of fossil fuels is a major source of nitrogen dioxide pollution.
  2. It is one of the pollutants tracked by the Air Quality Index on the real time basis.
  3. It is a major contributor of acid rain.
- 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
- 25.** Consider the following pairs with respect to Climatic Regions of India according to Koeppen's Scheme:
- | <b>Climatic Region</b>          | <b>Area</b>                      |
|---------------------------------|----------------------------------|
| 1. Monsoon with dry summer (As) | : Coromandel Coast of Tamil Nadu |
| 2. Tropical Savannah (Aw)       | : Dandakaranya Plateau           |
| 3. Polar Type (E)               | : Himachal Pradesh               |
- Which of the pairs 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
- 26.** Consider the following pairs:
- | <b>Process</b>  | <b>Description</b>   |
|-----------------|--|
| 1. Eluviation   | : Accumulation of dissolved soil materials in lower levels |
| 2. Illuviation  | : Downward transportation of soil components by water      |
| 3. Desilication | : Removal of silica from the soil                          |
- Which of the pairs given above is/are correctly matched?
- (a) 1 and 2 only
  - (b) 2 and 3 only
  - (c) 1, 2 and 3
  - (d) 3 only
- 27.** If a person travels from Andhra Pradesh to Tamil Nadu through the Eastern Ghats which of the following will be encountered by him?
1. Javadi Hills
  2. Garhjat Hills
  3. Sirumalai Hills
  4. Shevaroy Hills
- Select the correct answer using the code given below.
- (a) 1, 2 and 3 only
  - (b) 2 and 4 only
  - (c) 1, 3 and 4 only
  - (d) 3 and 4 only
- 28.** Which of the following conditions promote mudflow?
1. Steep and vertical slope
  2. Presence of unconsolidated material on the upper surface
  3. Intermittent supply of sufficient water
  4. Absence of vegetation
- Select the correct answer using the code given below.
- (a) 1 and 2 only
  - (b) 2 and 3 only
  - (c) 1 and 4 only
  - (d) 1, 2, 3 and 4

29. Which of the following soils has the lower horizons occupied by the Kankar layers?
- Saline Soils
  - Red Soils
  - Laterite Soils
  - Arid Soils
30. Which of the following statement is *not* correct with reference to Black Fungus (Mucormycosis) disease, sometimes seen in news?
- It is caused by a fungus which is abundantly found in the environment.
  - It is a non-contagious infectious disease.
  - It often manifests in the skin and also affects the lungs and the brain.
  - Antibiotics are used extensively as treatment.
31. Which of the following are direct sources of information about the Earth's interior?
- Earthquakes
  - Volcanic eruption
  - Rocks obtained from mines
  - Meteors
- Select the correct answer using the code given below.
- 1 and 2 only
  - 2 and 3 only
  - 3 and 4 only
  - 1 and 3 only
32. Consider the following statements regarding gravity anomalies:
- It refers to the difference between the observed value of gravity and the expected value of gravity.
  - It gives us information about the distribution of mass of the material in the crust of the earth.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
33. With reference to the Indus river, consider the following statements:
- It passes through Jammu and Kashmir, Uttarakhand, and Himachal Pradesh.
  - It has five tributaries only which are collectively known as 'Panjnad'.
  - Indus is the westernmost of the Himalayan rivers in India.
- Which of the statements given above is/are correct?
- 1 and 3 only
  - 1, 2 and 3
  - 3 only
  - 2 only
34. Consider the following statements regarding extra-tropical cyclones:
- Extratropical cyclones can originate on both land and sea.
  - Extratropical cyclones usually move in the east to west direction.
  - Pattern of wind direction in extratropical cyclones is anti-clockwise in the northern hemisphere.
- Which of the statements given above are correct?
- 1 and 2 only
  - 2 and 3 only
  - 1 and 3 only
  - 1, 2 and 3
35. Indian Oil Corporation recently began supply of biodiesel made from Used Cooking Oil (UCO). In this context, consider the following statements regarding blending of biodiesel:
- India has a target of blending of 20% blending of biodiesel in diesel by 2030.
  - Blending of biodiesel is being promoted because biodiesel is rapidly biodegradable and completely non-toxic.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2

- 36.** Which of the following discontinuities forms the seismic boundary between the Earth's crust and the mantle?
- Gutenberg discontinuity
  - Mohorovicic discontinuity
  - Conrad discontinuity
  - Lehmann discontinuity
- 37.** Consider the following statements:
- The point where the energy is released during an earthquake is called the epicenter.
  - Tsunami would occur only if the epicenter of the tremor is below oceanic waters.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- 38.** Consider the following statements regarding Nebular Hypothesis:
- It explains the formation of planets from a cloud of material associated with a youthful sun.
  - Immanuel Kant is one of the major contributors to this theory.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- 39.** Recently the National Programme on Advanced Chemistry Cell (ACCs) Battery Storage was approved. In this context, consider the following statements:
- The National Programme on Advanced Chemistry Cell will be administered by Ministry of New and Renewable Energy.
  - It is expected to boost adaptation of electrical vehicles in India.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- 40.** These regions have a bleak landscape, occasionally broken by precipitous slopes. There is a general absence of surface drainage as most of the surface water has gone underground. Streams rising on other rocks only flow over limestone for a short distance and then disappear underground. This region derived its name from the district of Yugoslavia where such topography is particularly well developed. Which of the following regions is being referred to in the passage given above?
- Karst region
  - Zeugen region
  - Inselberg region
  - Coombes Region
- 41.** The general direction of these ranges is from southwest to northeast. These ranges are dissected by fast-flowing rivers that are perennial with a high rate of fall and thus having the highest hydroelectric power potential in the country. These are inhabited by numerous ethnic tribal communities most of which practice Jhumming. Which of the following ranges has been described in the passage given above?
- Darjeeling Himalayas
  - Uttarakhand Himalayas
  - Arunachal Himalayas
  - Kashmir Himalayas

42. Consider the following pairs:

<i>Physiographic feature</i>	<i>Himalayas</i>
1. Karewa formations	: Kashmir Himalayas
2. Dun formations	: Uttarakhand Himalayas
3. Duar formations	: Himachal Himalayas

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

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

43. Which of the following statements best describes Geostrophic winds?

- (a) It is the wind that blows parallel to the isobars when the Coriolis force is balanced by the pressure gradient force
- (b) It is a severe snowstorm characterized by strong sustained winds.
- (c) It is a downslope wind flowing from high elevations of mountains, plateaus, and hills down their slopes to the valleys or plains below.
- (d) None of the above

44. Recently the report "Nature in a Globalised World: Conflict and Conservation" was seen in the news. It has been released by:

- (a) World Wild Life Fund for Nature
- (b) International Union for Conservation of Nature
- (c) United Nations Environment Programme
- (d) The Wild Life Conservation Society

45. With reference to the gorges, consider the following statements:

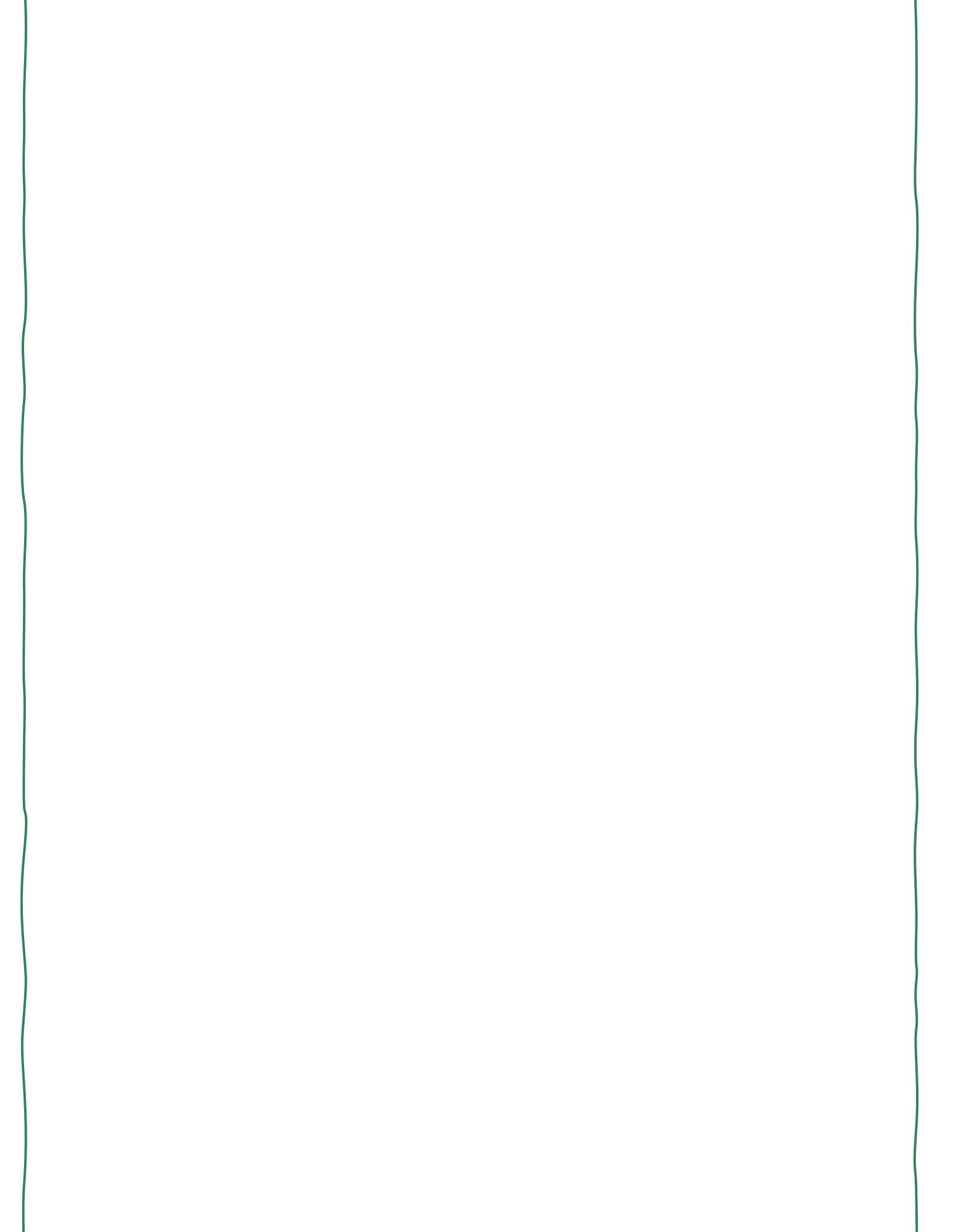
- 1. Gorges are formed during the youthful stage of the fluvial cycle of erosion
  - 2. Gorges are also formed due to the recession of waterfalls.
  - 3. Canyons are an extended form of gorges. Which of the statements given above is/are correct?
- (a) 1 and 2 only
  - (b) 2 and 3 only
  - (c) 1 only
  - (d) 1, 2 and 3

46. In the context of winds in the Indian subcontinent, what do you understand by the term 'Nor Westers'?

- (a) They are extra tropical storms that brings sudden winter rain to the northern parts of the India.
- (b) They are strong winds and violent thunderstorms that occur during summer season in the Bengal region.
- (c) They refer to tropical cyclones developed in Arabian Sea during the Southwest Monsoon season.
- (d) They refer to tropical easterly jet streams that overlies southern Asia in the troposphere.

47. Mongolian Kanjur, recently seen in the news is a:

- (a) species of bird which migrates to India during winter.
- (b) traditional attire of indigenous population of Bhutan.
- (c) Buddhist canonical text.
- (d) herbaceous plant that can be used to treat high blood pressure.



48. Which of the following islands are located in the Mediterranean sea?
- Ibiza (Balearic Islands)
  - Crete
  - Cyprus
- Select the correct answer using the code given below.
- 1 and 2 only
  - 2 and 3 only
  - 1 and 3 only
  - 1, 2 and 3
49. Consider the following statements with reference to the Indian Desert:
- The Great Indian Desert lies northeast of the Aravali Hills.
  - Mushroom Rocks are well-pronounced land features of the Indian Desert.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
50. Consider the following statements:
- The total forest cover is just over one-fifth of the geographical area of the country.
  - The actual forest cover is the area notified and recorded as the forest land irrespective of the existence of trees.
  - The forest area is the area occupied by forests with a canopy.
- Which of the statements given above is/are **not** correct?
- 1, 2 and 3
  - 1 and 2 only
  - 1 and 3 only
  - 2 and 3 only
51. In the context of desert landforms found in the Indian Desert, Barchans are:
- thick deposits of glacial clay and other materials.
  - tabular masses which have a layer of soft rocks lying beneath a surface layer of more resistant rocks.
  - long narrow ridges of sand lying parallel to the direction of prevailing winds.
  - crescent shaped sand dunes.
52. With reference to the western coastal plains, consider the following statements:
- The western coastal plains are an example of submerged coastal plains.
  - The western coastal plains are narrow in the middle and get broader towards north and south.
  - The rivers flowing through western coastal plains form well-developed deltas.
- Which of the statements given above are correct?
- 1 and 2 only
  - 2 and 3 only
  - 1 and 3 only
  - 1, 2 and 3
53. Consider the following statements regarding minerals present in different types of rocks:
- Generally, metallic minerals are found in igneous and metamorphic rock formations.
  - Non-metallic minerals are found in sedimentary rock formations of plains and young fold mountains.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2

- 54.** Consider the following statements with reference to the continent of Antarctica:
1. It is the fifth-largest in size among the world's continents.
  2. More than ninety percent of the land of the continent is ice-covered.
  3. It has two principal embayments, the Ross Sea and the Weddell Sea.
- Which of the statements given above is/are correct?
- (a) 1 and 2 only
  - (b) 2 only
  - (c) 1, 2 and 3
  - (d) 1 and 3 only
- 55.** Arrange the following continents in decreasing order of their size.
1. Asia
  2. Africa
  3. South America
  4. Europe
- Select the correct answer using the code given below.
- (a) 1-2-3-4
  - (b) 2-1-4-3
  - (c) 2-1-3-4
  - (d) 1-2-4-3
- 56.** Arrange the following mountain passes of the Great Himalayas from west to east:
1. Zoji La
  2. Baralacha La
  3. Shipki La
  4. Jelep La
- Select the correct answer using the code given below.
- (a) 3-1-2-4
  - (b) 4-3-2-1
  - (c) 1-2-3-4
  - (d) 4-2-1-3
- 57.** Consider the following statements regarding the evolution of the Earth's Atmosphere:
1. The early primordial atmosphere of Earth was dominated by hydrogen and helium.
  2. Gases and water vapor were released from the interior solid earth during the cooling of Earth.
- Which of the statements given above is/are correct?
- (a) 1 only
  - (b) 2 only
  - (c) Both 1 and 2
  - (d) Neither 1 nor 2
- 58.** Recently Putul Nach was in the news to create awareness in Assam regarding COVID appropriate behaviour. In this context, 'putul nach' is a:
- (a) form of puppetry
  - (b) type of painting using folk themes
  - (c) type of street play
  - (d) tribal dance portraying local themes
- 59.** Consider the following statements:
1. Compact and consolidated rocks are least affected by freeze-thaw actions.
  2. Sedimentary rocks are highly susceptible to this mechanism of weathering.
- 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

- 60.** With reference to OSIRIS-REX mission, consider the following statements:
1. It aims to collect samples from asteroid Bennu and bring them back to Earth.
  2. It was launched by European Space Agency.
- 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.** With reference to the Ganga river system, consider the following pairs:
- | <i>Name of rivers</i>       | <i>Meeting Point</i> |
|-----------------------------|----------------------|
| 1. Bhagirathi and Alaknanda | : Dev Prayag         |
| 2. Dhauli and Vishnu Ganga  | : Karna Prayag       |
| 3. Mandakini and Alaknanda  | : Rudra Prayag       |
- Which of the pairs given above are correctly matched?
- (a) 1 and 2 only
  - (b) 1, 2 and 3
  - (c) 1 and 3 only
  - (d) 2 and 3 only
- 62.** A violently rotating column of air touching the ground, usually attached to the base of a thunderstorm, is known as:
- (a) Tornado
  - (b) Whirlpool
  - (c) Storm Surge
  - (d) Tsunami
- 63.** With reference to acidic lava, consider the following statements:
1. These lavas are highly viscous with a high melting point.
  2. These lavas are dark-colored, rich in iron and magnesium but poor in silica.
  3. They flow out of the vent with a loud explosion.
- Which of the statements given above is/are correct?
- (a) 2 and 3 only
  - (b) 2 only
  - (c) 1 and 3 only
  - (d) 1, 2 and 3
- 64.** With reference to the dry deciduous forests, consider the following statements:
1. They are the most widespread forests in India.
  2. The important species are teak, axlewood, rosewood, red sanders, palas, amaltas, laurel etc.
- 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
- 65.** Recently red-eared slider (*Trachemys scripta elegans*) a turtle species was in news, consider the following statements with reference to it:
1. It is a major invasive species of turtle.
  2. This species is naturally found in India.
- 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

- 66.** Which of the following states of India share international boundaries with Bangladesh?
- Assam
  - Sikkim
  - Mizoram
  - Manipur
- Select the correct answer using the code given below.
- 1 and 2 only
  - 1 and 3 only
  - 1 and 4 only
  - 2, 3 and 4 only
- 67.** Consider the following statements:
- Potholes are cylindrical depressions over the rocky beds of hill streams.
  - Potholes are generally formed in sandstones and granites.
  - Plunge pools are formed at the base of waterfalls.
- Which of the statements given above is/are correct?
- 2 only
  - 1 and 3 only
  - 2 and 3 only
  - 1, 2 and 3
- 68.** With reference to SVAMITVA Scheme, consider the following statements:
- It aims to provide an integrated property validation solution by ensuring property rights to the residents of rural inhabited areas.
  - It is being implemented by the Ministry of Agriculture and Farmers Welfare.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- 69.** Which of the following local winds are observed in Warm Temperate Eastern Margin Climate or Natal type of climate?
- Pampero
  - Harmattan
  - Berg
  - Southerly Buster
- Select the correct answer using the code given below.
- 1, 2 and 4 only
  - 1, 3 and 4 only
  - 2, 3 and 4 only
  - 1, 2 and 3 only
- 70.** These drainage patterns are formed by the network of tributaries and master consequent streams that follow the regional slope and are well adjusted to the geological structures. In this type of pattern, the short subsequent streams meet the mainstream at right angles, and differential erosion through soft rocks paves the way for tributaries.
- Which of the following drainage patterns is being described in the above passage?
- Trellised
  - Dendritic
  - Radial
  - Annular
- 71.** Consider the following regions of India:
- Malabar coast
  - Northern part of Jammu & Kashmir
  - Chotanagpur Plateau
- Arrange the above-given regions in increasing the order of variability of rainfall.
- 1-2-3
  - 2-3-1
  - 1-3-2
  - 2-1-3

- 72.** Consider the following statements regarding Savanna type climate:
1. Minimum diurnal range of temperature is the characteristic feature of this type of climate.
  2. Distinct wet and dry seasons are observed in this climate.
  3. Vegetation in the savanna climate is predominantly semi-evergreen.
- Which of the statements given above is/are correct?
- (a) 1 only
  - (b) 2 only
  - (c) 2 and 3 only
  - (d) 1 and 3 only
- 73.** The old stage of the cycle of river erosion is characterized by
1. Decrease in channel gradient
  2. The absence of the downcutting of the valley
  3. Rivers adopting highly meandering courses
- 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
- 74.** India is developing a Dedicated Freight Corridor project which aims to provide seamless movement of freight trains. Which of the following cities are connected in the East Coast Dedicated Freight Corridor?
1. Kharagpur
  2. Vijaywada
  3. Chennai
  4. Ennore
- Select the correct answer using the code given below.
- (a) 1 and 2 only
  - (b) 2, 3 and 4 only
  - (c) 1, 3 and 4 only
  - (d) 1, 2, 3 and 4
- 75.** With reference to the characteristics of Troposphere, consider the following statements:
1. Thickness of the troposphere is highest at the equator due to low gravity at the equator.
  2. Temperature of tropopause at poles is higher than the equator.
- 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
- 76.** Which of the following statements is/are correct regarding the Earth's Crust?
1. Crust is the outermost solid part of the earth.
  2. Oceanic crust is thinner as compared to continental crust.
  3. Continental crust is denser than oceanic crust.
- Select the correct answer using the code given below.
- (a) 1 and 2 only
  - (b) 2 and 3 only
  - (c) 1 only
  - (d) 1, 2 and 3
- 77.** Consider the following statements with reference to natural disasters:
1. The impact of a tsunami is greater over the ocean and less near the coast.
  2. Storm surges are restricted to oceans and do not cause flooding on land.
- 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

- 78.** Consider the following statements:
1. The Himalayas prevent the cold winds from Central Asia from entering the subcontinent.
  2. Northern India experiences a higher annual range of temperatures compared to Southern India.
  3. Seasonal contrasts in interior parts of the country are higher compared to coastal locations.
- 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
- 79.** Recently a drug 2-deoxy-D-glucose (2-DG) was seen in news, consider the following statements with reference to it:
1. It prevents virus growth by stopping viral synthesis and energy production.
  2. It is developed indigenously by Indian Medical Association.
- Which of the statements given above is/are correct?
- (a) 1 only  
(b) 2 only  
(c) Both 1 and 2  
(d) Neither 1 and 2
- 80.** Which of the following is/are the cause(s) of changes in the seasons?
1. Revolution of the earth
  2. Rotation of the earth
  3. Earth's tilted 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
- 81.** Recently SWAMIH Fund was in the news. Consider the following statements regarding SWAMIH fund:
1. It has been formed to complete construction of stalled affordable and mid-income category housing projects only.
  2. This scheme is being administered by the Ministry of Housing and Urban Affairs.
- Which of the statements given above is/are correct?
- (a) 1 only  
(b) 2 only  
(c) Both 1 and 2  
(d) Neither 1 and 2
- 82.** Which of the following river systems is 'ephemeral' in nature?
- (a) Kabani  
(b) Vaigai  
(c) Luni  
(d) Musi
- 83.** With reference to the Indian islands of the Arabian Sea, consider the following statements:
1. The entire island group is built of coral deposits.
  2. The islands are marked by storm beaches on the eastern seaward shores.
  3. Saddle peak is the highest mountain peak in the region.
- 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

- 84.** Recently, the Supreme Court has delivered a judgement on 102nd Constitutional Amendment Act, 2018. This amendment Act is related to which of the following issues?
- Disqualification of Member of Parliament
  - Providing extra-constitutional powers to Lieutenant Governor of Delhi
  - Power to identify Socially and Educationally Backward Class (SEBC)
  - Making Aadhar non-mandatory on public procurement schemes of the central and state governments
- 85.** Consider the following statements:
- An air mass is a body of air covering a relatively wide area exhibiting approximately uniform physical properties.
  - In an air mass there is negligible vertical variation in temperature and moisture.
  - When two contrasting warm and cold air masses meet they form a front.
- Which of the statements given above are correct?
- 1 and 2 only
  - 2 and 3 only
  - 1 and 3 only
  - 1, 2 and 3
- 86.** In the context of oceanography, a Bay is a:
- small water body that is surrounded on three sides by land and the fourth side wide open towards oceans.
  - large water body, sometimes with a narrow mouth, that is almost completely surrounded by land.
  - narrow passageway of water, usually between continents or islands, or between two larger water bodies.
  - narrow piece of land connecting two large land masses.
- 87.** With reference to the impact of solar activity on global climate, consider the following statements:
- Volcanic eruptions reduce the sun's radiation reaching the earth's surface.
  - A decrease in the sunspot numbers is associated with cooler and wetter weather conditions.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- 88.** With reference to the Northeast Extension of the Peninsular Plateau, consider the following statements:
- The northeastern parts are separated by the Bhima fault from the Chotanagpur plateau.
  - Meghalayan plateau is a northeast extension of the peninsular plateau.
- Which of the statements given above is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- 89.** Which of the following statements is/are correct regarding the Solar System?
- Mercury is the only planet without a satellite.
  - All planets in the solar system rotate around their own axis from East to West.
  - The asteroid belt in the Solar System is located roughly between the orbits of the planets Jupiter and Saturn.
- Select the correct answer using the code given below.
- 1 only
  - 2 and 3 only
  - 1 and 3 only
  - None

- 95.90** With reference to tropical thorn forests, consider the following statements:
1. These forests occur in areas that receive rainfall between 50-100 cm.
  2. In these forests, plants remain leafless for the most part of the year and give an expression of scrub vegetation.
  3. It is extensively distributed throughout the dry peninsular tract on the leeward side of the Western Ghats.
- Which of the statements given above are correct?
- (a) 1, 2 and 3  
(b) 2 and 3 only  
(c) 1 and 3 only  
(d) 1 and 2 only

- 96.91** Consider the following statements:
1. There is very low humus content in soils of cold climates.
  2. In cold climates, bacterial growth and action are intense leaving very low humus content in the soil.
- 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

- .92** Consider the following statements:
1. The western ghats are comparatively higher in elevation than the eastern ghats.
  2. The western ghats are highly eroded by the river as compared to eastern ghats.
  3. The western ghats and the eastern ghats meet each other at the Nilgiri Hills.
- Which of the statements given above are correct?
- (a) 1, 2 and 3  
(b) 1 and 2 only  
(c) 2 and 3 only  
(d) 1 and 3 only

- 98.93** Consider the following difference between the terrestrial and the Jovian planets:
1. Unlike terrestrial planets, the Jovian planets have lots of gas and dust in the atmosphere.
  2. The terrestrial planets have higher gravity than the Jovian planets.
- 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

- 94.** This National Park is part of the Great Nicobar Biosphere Reserve and it is the southernmost National Park of India. Its vegetation includes tropical moist broadleaf forests, evergreen & semi-evergreen deciduous tree species. The major fauna found here includes giant robber crab, megapode, and Nicobar pigeon.
- Which of the following national parks is being described in the above-given passage?
- (a) Campbell Bay National park  
(b) Galathea National Park  
(c) Mahatma Gandhi Marine National Park  
(d) Mount Harriett National Park

- 95.** Consider the following statements with respect to the Big Bang Theory (BBT):
1. According to BBT all of the current and past matter in the Universe came into existence at the same time.
  2. The BBT is also called the expanding universe hypothesis.
- 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

**90.96** With reference to drainage patterns occurring in India, consider the following statements:

1. Son and Narmada rivers follow the radial drainage pattern.
2. Ganga and Brahmaputra rivers follow a trellis drainage pattern.
3. Manipur river draining into Loktak Lake follows the centripetal pattern of drainage.

Which of the statements given above are correct?

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

**91.97** Consider the following statements with respect to Western Disturbances:

1. They originate in the tropical regions of Western Asia.
2. They are driven into India by the westerly jet stream.
3. They bring rainfall in Northern India during the winter season.
4. When the Western Disturbances approach a region, a decline in the night temperatures is observed.

Which of the statements given above are correct?

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

**92.98** Consider the following statements

regarding different layers in the Soil profile:

1. Horizon A is composed of loose parent material.
2. Horizon C is the last stage in the soil formation process.
3. Horizon B contains organic as well as mineral matter.

Which of the statements given above is/are correct?

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

**93.99** The United Nations Global Road Safety Week (UNGRSW), a biennial global road safety campaign is hosted by:

- (a) Global Road Safety Partnership
- (b) World Health Organisation
- (c) International Transport Forum
- (d) World Bank's Global Road Safety Facility

**94.100** Consider the following statements with respect to Inter-Tropical Convergence Zone (ITCZ):

1. ITCZ is a low-pressure zone that moves with the apparent movement of the sun.
2. Tropical Cyclones paths over India are mainly determined by the position of ITCZ.

Which of the statements given above are correct?

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