



Time Allowed: 2Hrs

Maximum Marks:200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TURN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. 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.
3. 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 with you consider the best. In any case, choose ONLY ONE response for each item.
4. You have to mark all your responses ONLY on the separate Answer Sheet provided. See direction in the answers sheet.
5. All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the answer sheet. For every incorrect response $1/3^{\text{rd}}$ of the allotted marks will be deducted.
6. Before you proceed to mark in the Answer sheet the response to various items in the Test booklet, you have to fill in some particulars in the answer sheets as per instruction sent to you with your Admission Certificate.
7. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet. You are permitted to take away with you the Test Booklet.
8. Sheet for rough work are appended in the Test Booklet at the end.

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



Q1. Why most of the world's deserts are located in the western margins of continents in the subtropics?

1. Western margins of continents in subtropics often experience cold currents.
2. The prevailing winds in the tropics are tropical easterly winds.

Which of the above statements is/are correct?

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

Q2. Consider the following conditions:

1. The climate has a concentration of rainfall in winter with onshore westerlies and bright sunny weather with hot dry summers.
2. The climate assists orchard farming.

Which type of climate is described above?

- a. Steppe climate
- b. Sudan climate
- c. Laurentian climate
- d. Mediterranean climate

Q3. With reference to the cyclones and anticyclones, consider the following statements:

1. Cyclones have high pressure at the centre while anticyclones have low pressure at the centre.
2. Winds blow anticlockwise in the northern hemisphere in cyclones and clockwise in anticyclones.

Which of the above statements is/are correct?

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

Q4. Consider the following statements with respect to the peninsular rivers:

1. The peninsular rivers which fall into the Arabian sea form estuaries and not deltas.

2. The peninsular drainage system is older than the Himalayan drainage.

3. They are characterised by broad and shallow valleys.

Which of the above statements is/are correct ?

- a. 1 only
- b. 2 and 3 only
- c. 2 only
- d. 1,2 and 3

Q5. Consider the following rivers:

1. Barak
2. Lohit
3. Subansiri
4. Kuga

Which of the above flow/flows through Manipur ?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 3 and 4 only
- d. 1 and 4 only

Q6. Which of the following are the causes of recent heat waves in Europe?

1. Slower jet streams which result in persistent dry and settled weather
2. Emergence of a low-pressure area that attracted hot air from northern Africa
3. The northward push of Azore's high, a subtropical pressure system

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

Q7. Concerning Super Typhoon Hinnamnor, which of the following statements is/are correct?

1. Super Typhoon Hinnamnor is similar to a category-5 hurricane.
2. Hurricanes are tropical storms that form over the North Atlantic Ocean and Northeast Pacific.



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Select the correct answer using the code given below:

- 1 only
- 2 only
- both 1 and 2
- neither 1 nor 2

Q8. With reference to the Earth's Crust, consider the following statements:

1. It is predominantly composed of Peridotite.
2. Oceanic crust is thinner as compared to continental crust.
3. The upper part of the crust consists of Basaltic rocks and lower part of the crust consists of Granite rocks.
4. The weaker zone of the earth's crust is called Asthenosphere.

Which of the above statements is/are correct ?

- 2 and 3 only
- 2 only
- 3 and 4 only
- 1, 2, 3 and 4

Q9. In context of the Rare Earth Minerals, consider the following statements:

1. They are also referred to as "rare earth oxides" because many of them are typically sold as oxide compounds.
2. China is the world's largest producer and consumer of rare earth minerals.
3. A new rare earth mineral, goldschmidtite, has been discovered in diamond.

Which of the above statements is/are correct ?

- 1 and 2 only
- 2 only
- 2 and 3 only
- 1, 2 and 3

Q10. With regards to the 'Continental Drift Theory', examine the following:

1. Presented by Alfred Wegener in later 1920s.

2. The earliest marine deposits along the coastline of South America and Africa are of the Jurassic age.

3. The glacial Tillite in India resembles the tillite found in Africa, Antarctica and Australia.

Which of the above statements is/are correct ?

- 1 and 2 only
- 2 and 3 only
- 2 only
- 1, 2 and 3

Q11. Which of the following pairs are correct:

1. Small scale map - depicts large area.
2. Large scale map - depicts smaller area.
3. Map Scale - is the ratio between actual distances on the ground to the distance shown on map.

Select the correct option using the code given below:

- 1 and 2 only
- 2 and 3 only
- 3 only
- 1, 2 and 3

Q12. Consider the following statements:

1. A 'Phacolith' is a saucer shaped intrusive body formed due to solidifying of lava within the Earth's crust.
2. 'Sills' are horizontal deposits of intrusive igneous rocks.
3. A 'Lapolith' is a wavy mass of intrusive rocks found at the base of synclines or on top of anticlines.

Which of the above statements is/are correct ?

- 1 and 2 only
- 2 and 3 only
- 2 only
- 1, 2 and 3



Q13. Which of the following weather conditions are observed in India during the winter season:

1. Development of a low-pressure centre towards the north of the Himalayas
2. Presence of Jet Stream in the upper air system
3. Western Cyclonic Disturbance

Select the Correct Code

- a. 1 and 2 Only
- b. 1 and 3 Only
- c. 2 and 3 Only
- d. 1, 2 and 3

Q14. Which of the following landforms are formed by rivers and running water?

1. Plunge pools
2. Meanders
3. Alluvial fans
4. Natural levees
5. Point bars

Select the correct answer code:

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

Q15. Examine the following Statements:

1. Block Mountains are formed due to divergence of plates only.
2. The uplifted blocks are termed as graben.
3. The downthrown blocks are termed as horsts.

Which of the statements given above is/are incorrect?

- a. 2 and 3 only
- b. 1 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q16. Which of the following has been termed as the 'Golden Fibre'?

- a. Silk
- b. Cotton

- c. Jute
- d. Wool

Q17. With reference to the seismic waves, consider the following:

1. The point within the earth where an earthquake rupture starts is called hypocentre.
2. P waves and S waves are body waves.
3. Rayleigh wave and Love wave are transverse waves.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q18. In context of mineral cycle, select the correct answer code:

1. Mineral salts come indirectly from the earth's crust by weathering.
2. All living organisms fulfil their mineral requirements from mineral solution in their environments.
3. After the death of living organisms, the minerals are returned to the soil and water through decomposition and flow.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q19. With reference to the Taiga climate, consider the following statements:

1. It is characterized by very cold winters and cool summers.
2. It has evergreen vegetation with trees such as Pine, Fir, and Larch.
3. It is one of the richest sources of softwood in the world.

Which of the statements given above are correct?

- a. 1 and 2 only



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- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q20. Consider the following statements:

1. Roche moutonnee and crag and tail are the erosional features of glaciated lowlands.
2. Outwash plains are made up of fluvio-glacial deposits washed out from terminal moraines by the streams of the stagnant ice mass.

Which of the above statements is/are correct?

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

Q21. Recently, Bioplastics was in news. Examine the following statements:

1. Bioplastic is a biodegradable material that comes only from renewable sources.
2. Unlike conventional plastics, the Bio Plastic items can be broken down by microbes in industrial composting facilities.
3. Net contribution to negative environment impact like Eutrophication and Acidification potentials are higher for conventional plastics than Bioplastics.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q22. In context of the Watershed. Consider the following statements:

1. A watershed is simply the area of land that catches rain and snow and drains or seeps into a marsh, stream, river, lake or groundwater.
2. The boundary line separating one drainage basin from the other is known as the water shed.

3. Watersheds covers arger area than basins.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q23. With reference to the rock cycle, consider the following statements:

1. Metamorphic rocks through continuous denudation changes into igneous rocks.
2. Sedimentary rocks upon melting in the interior changes into metamorphic rocks.
3. Igneous rocks under high pressure and heat transform into metamorphic rocks.

Which of the above statements is/are correct ?

- a. 1 and 2 only
- b. 3 only
- c. 2 and 3 only
- d. 1, 2 and 3

Q24. Examine the following Statements:

1. Veld is a flat area covered in grass or low scrub, especially in the countries of South Africa, Lesotho, Eswatini, Zimbabwe and Botswana.
2. Veld is bound by Drakensberg Mountains on the east and Kalahari Desert on the west.

Which of the above statements is/are correct?

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

Q25. Which of the statements given below is/are correct regarding heating of the atmosphere?

1. The earth after being heated by insolation transmits the heat to the



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atmospheric layers near to the earth in a long waveform.

2. Both convection and conduction are important processes in heating the troposphere layer of the earth.
3. The transfer of heat through the vertical movement of air is called advection.

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

Q26. Consider the following statements:

1. The Equatorial Climate is a prone region for Sunstroke.
2. The Equatorial Climate is prone to Malaria disease which is caused by a Parasite.
3. The Equatorial Climate is prone to Yellow fever disease which is caused by a Protozoa.

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

Q27. Consider the following statements:

1. The thickness of the crust varies under the oceanic and continental areas.
2. The Asthenosphere extends up to 250-300 kms below the Earth's surface.
3. The outer core is in liquid state while the inner core is in a solid state.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q28. With regard to the evolution of atmosphere, select the correct statement(s):

1. The first stage of evolution is marked by melting of the hot interior of the earth.
2. The second stage saw the loss of primordial atmosphere.
3. In the final stage the composition of the atmosphere was modified by the living world.

Select the correct answer code:

- a. 1 and 2 only
- b. 3 only
- c. 2 and 3 only
- d. 1, 2 and 3

Q29. The average annual temperature for the northern hemisphere is greater than the southern hemisphere because of?

- a. lesser area of tropical land in the Northern Hemisphere
- b. northward salinity transfer by the ocean circulation
- c. unequal distribution of land and water
- d. dominance of convection process in Northern Hemisphere

Q30. Baghjan Oilfield was recently in news, is located in which of the following state:

- a. Assam
- b. Rajasthan
- c. Gujarat
- d. Meghalaya

Q31. Examine the following statements:

1. The Prime Meridian is the longitude which passes through the Royal Astronomical Observatory at Washington.
2. A traveller going eastwards from Greenwich loses time until he reaches the meridian 180° east.
3. The Indian Government has accepted the meridian of 82.5° east for the standard time which is 5 hours 30 minutes, ahead of Greenwich Mean Time.



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Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 3 only
- c. 2 and 3 only
- d. 1, 2 and 3

Q32. From the following select the correct pair:

(Entity) - (Measuring Instrument)

- 1. Earthquake – Seismometer
- 2. Plant growth – Crescograph
- 3. Density – Hydrometer
- 4. Air Pressure - Barometer

Select the correct answer code:

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

Q33. With reference to the Montane Forests, consider the following statements:

- 1. In these forest evergreen broad-leaf trees such as oaks and chestnuts are generally found.
- 2. Animals found in these forests have thick hair.
- 3. In India, these forests cover the southern slopes of the Himalayas and north-east India.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 1 only
- c. 2 and 3 only
- d. 1, 2 and 3

Q34. Consider the following statements with respect to the earthquake waves:

- 1. Surface waves are generated due to release of energy at the focus.
- 2. Surface waves interact with surface rocks and generate new set of waves called body waves.
- 3. Surface waves are the first report on the seismograph.

4. All natural earthquake waves take birth in the mantle.

Which of the above statements is/are incorrect ?

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

Q35. Arrange the following elements in decreasing order with respect to their abundance in the earth's crust:

- a. Iron > Silicon > Oxygen > Aluminium
- b. Iron > Oxygen > Silicon > Aluminium
- c. Oxygen > Silicon > Iron > Aluminium
- d. Oxygen > Silicon > Aluminium > Iron

Q36. The nomadic tribes 'Lapps, Samoyeds and Eskimos' are mainly found in?

- a. Siberian Climate
- b. Arctic climate
- c. British type climate
- d. China type Climate

Q37. Which of the following process(es) can be best associated with Diastrophism?

- 1. Mountain building through severe folding of the earth's crust.
- 2. The heat generation by the radioactive elements in earth's interior.
- 3. Weathering, mass wasting, erosion and deposition.

Select the correct answer code:

- a. 1 and 2 only
- b. 1 only
- c. 2 and 3 only
- d. 1, 2 and 3



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Q38. Arrange the following from surface of the earth to the interior:

1. Conrad discontinuity
2. Moho discontinuity
3. Lehmann discontinuity
4. Guttenberg discontinuity

Select the correct answer code:

- a. 1-2-3-4
- b. 1-3-4-2
- c. 1-2-4-3
- d. 2-3-4-1

Q39. Consider the following statements regarding caldera:

1. Formation of caldera happens due to subsidence and collapse than explosion.
2. India has a caldera in the Barren Island of Andaman.

Which of the statements given above is/are correct?

- a. 1 Only
- b. 2 Only
- c. Both 1 and 2
- d. None of the above

Q40. Consider the following statements with respect to the 'Geological Time Scale':

1. The first reptiles evolved during the Pleistocene epoch.
2. The Modern man came into being in the Holocene epoch.
3. The extinction of the dinosaurs took place in the Jurassic period.

Which of the above statements is/are correct ?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 2 only
- d. 1, 2 and 3

Q41. Which of the following forces are responsible for drifting:

1. The polar-fleeing force relates to the attraction of moon and earth over the poles.
2. The tidal force relates to the

rotation of earth that results in tides across oceans. 3. The polar fleeing force and tidal force, applied over millions of years would become effective.

Select the correct answer code:

- a. 1 only
- b. 2 only
- c. 3 only
- d. 1, 2 and 3

Q42. Which among the following is / are Volcanic mountains:

1. Mt Fuji
2. Mt Catopaxi
3. Mt Agung

Select the correct answer from the codes given below:

- a. 1 and 3 only
- b. 2 and 3 only
- c. 1, 2 and 3
- d. 1 and 2 only

Q43. The Arabian Sea shows higher salinity as compared to the Bay of Bengal as:

- a. it has high air humidity
- b. it often experiences the process of upwelling
- c. there is more acidic rainfall
- d. it receives a low influx of fresh water

Q44. With reference to the Mass Movements, which of the following statement(s) stands true:

1. They transfer the mass of rock debris down the slopes under the direct influence of gravity.
2. Weathering is a pre-requisite for mass movement.
3. Mass movements can be either slow or rapid.

Select the correct answer code:

- a. 1 and 3 only
- b. 3 only



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- c. 2 only
- d. 1, 2 and 3

Q45. Arrange the following from sea surface level to the interior:

1. Continental slope
2. Continental shelf
3. Deep ocean trenches
4. Mid-oceanic ridges

Select the correct answer code:

- a. 1-2-3-4
- b. 1-3-4-2
- c. 2-1-3-4
- d. 2-1-4-3

Q46. In context of the ocean trenches, select the correct statement(s):

1. They are located along divergent plate boundaries.
2. They are associated with active volcanoes and strong earthquakes.
3. Tonga trench and Mariana trench are located in the Pacific Ocean.

Select the correct answer code:

- a. 1 and 3 only
- b. 2 and 3 only
- c. 2 only
- d. 1, 2 and 3

Q47. With regards to the Sea Floor Spreading theory, consider the following statements:

1. Arthur Holmes in 1930 presented this systematic hypothesis.
2. It was argued that constant eruptions at the crest of ocean ridges cause spread of ocean floor.
3. Ocean floor that gets pushed gets consumed by sinking down at ocean trenches.
4. The earthquake foci in ocean ridges are deep seated.

Which of the above statements is/are incorrect ?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 4 only

- d. 2 and 4 only

Q48. Which of the following are the features of Shield Volcanoes:

1. The shield volcanoes are the largest of all the volcanoes on the earth by area.
2. The shield volcanoes are built in nature due to present of silica.
3. The Hawaiian volcanoes are example for the shield volcanoes.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 3 only
- c. 2 only
- d. 1, 2 and 3

Q49. With reference to the Arctic region, consider the following statements:

1. Gold and Petroleum are found majorly in the Alaska.
2. Coal and Iron ore reserves have not been found so far in the Arctic region.
3. India is an observer state in the Arctic Council.

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

Q50. Consider the following straits:

1. The Strait of Hormuz is a strait between the Persian Gulf and the Gulf of Oman.
2. Dardanelles Strait connects the Black Sea to the Sea of Marmara.
3. The Bosphorus Strait connects the Aegean Sea to the Sea of Marmara.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 1 only
- c. 2 and 3 only
- d. 1, 2 and 3



Q51. With reference to Plate Tectonics Theory, which of the following statement(s) stands true:

1. A tectonic plate is a massive, irregularly shaped slab of solid rock.
2. The plate generally consists of both continental and oceanic lithosphere.
3. A plate may be referred to as continental or oceanic based on which occupies a lesser portion.
4. McKenzie, Parker and Morgan independently collected evidences and came out with the concept.

Select the correct answer code:

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

Q52. Examine the following statements:

1. 'Dakshin Gangotri', 'Maitri' and 'Bharati' are the three Indian research stations in the Antarctic.
2. National Centre for Polar and Ocean research controls the Antarctic program of India.
3. 'INDARC' is India's first underwater moored observatory anchored in Kongsflorden fiord (Arctic).

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q53. Which of the following physical characteristics correctly represents a mineral:

1. External crystal form
2. Cleavage
3. Imbalanced gravity
4. Opaque nature
5. Lustre

Select the correct answer code:

- a. 1,2 and 5 only

b. 1, 2 and 3 only

c. 1, 4 and 5 only

d. 1, 3 and 5 only

Q54. Consider the following statements:

1. Lake Michigan is located entirely within the USA.
2. River Blue Nile originates from Lake Victoria.
3. Lake Baikal is the world's largest freshwater lake.

Which of the above statements is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q55. Consider the following statements regarding caldera:

1. Formation of caldera happens due to subsidence and collapse than explosion.
2. India has a caldera in the Barren Island of Andaman.

Which of the statements given above is/are correct?

- a. 1 Only
- b. 2 Only
- c. Both 1 and 2
- d. None of the above

Q56. In 1900, a theory of the origin of the earth was developed. It considered that a wandering star approached the sun. As a result, a cigar-shaped extension of the material was separated from the solar surface. As the passing star moved away, the material separated from the solar surface continued to revolve around the sun and it slowly condensed into planets. Which of the following theory/theories is/are discussed above:

- a. Nebular Hypothesis
- b. The Big Splat Theory
- c. Chamberlain and Moulton theory



d. Big Bang Theory

Q57. Which of the following statements correctly describes the distribution of water on Earth:

1. Major percentage of water on earth's surface is freshwater.
2. Major percentage of freshwater is trapped in glaciers and polar ice caps.
3. Moisture in soil holds more water than available in rivers and streams.

Select the correct answer code:

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Q58. With reference to “pelagic deposits” found on the ocean floor, which of the following statements is/are correct?

1. They are sediments which are formed from the remains of living beings only and are found on the abyssal plains.
2. “Red clay” is a type of pelagic sediment which is of volcanic origin.

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

Q59. In the context of Geomorphic Processes, consider the following statements

1. Chemical weathering occurs more slowly in deserts as compared to more humid climates.
 2. Orogeny is a part of the exogenic forces.
- 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

Q60. With respect to the Minerals of India, consider the following statements:

1. The Jaduguda Mines of Jharkhand is the largest Iron ore Mine of India.
2. India has more than 50 per cent of the world's Uranium reserves.

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

Q61. Consider the following statements

1. Solifluction happens most in mountainous places where a long dry season is followed by heavy rains.
2. Rock slides happen in mountainous regions where mining is done.
3. Undercutting of steep slopes can trigger Mass Movements.

Which of the statements given above is/are correct?

- a. 1 only
- b. 1 and 3 only
- c. 2 and 3 only
- d. 2 only

Q62. With reference to continental shelves, which of the following statements is/are correct?

1. Shelf breaks are very steep points at which continental shelves end.
2. Continental shelves are ecologically diverse and rich feeding grounds.

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

Q63. In the Context of Rocks of India, consider the following statements 1. Dharwar System rocks are metamorphosed rocks.



2. Cuddapah System rocks have been formed as a result of erosion and sedimentation of the rocks of Dharwar system.

3. Archean rocks are the oldest rocks of the earth's crust.

Which of the statements given above is/are correct?

- a. 1 and 2 only
- b. 1 and 3 only
- c. 2 and 3 only
- d. 1,2 and 3

Q64. In the context of Hotspots, consider the following statements

1. Hotspots develop near the Plate Boundaries.

2. Hot spots can be used to track plate movements.

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

Q65. Which of the following are immediate hazardous effects of earthquakes?

- 1. Tsunami
- 2. Differential ground settlement
- 3. Soil liquefaction
- 4. Ground displacement
- 5. Floods from dams

Select the correct answer using the code given below:

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

Q66. Consider the following Pairs-Rocks Types

- 1. Shale- Sedimentary Rock
- 2. Quartzite- Igneous Rock
- 3. Schist- Metamorphic Rock

Which of the pairs given above are correctly matched?

- a. 1 and 2 only
- b. 1 and 3 only
- c. 2 and 3 only
- d. 1 only

Q67. Consider the following regarding Cloud bursts?

1. There is no possibility of them occurring in the plain regions.

2. Such clouds are generally cumulonimbus and may undergo orographic lift.

3. The Copenhagen Climate adaptation model contains ways to manage this event.

4. It involves downward movement of air currents coupled with the presence of frontal cyclones.

Which of the statements given above is/are correct?

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

Q68. Consider the following statements:

1. The seismicity of the Alpine-Himalayan belt is at shallow depths whereas it is deep-seated in the areas of mid-oceanic ridges.

2. There are no hotspot activities present around the Circum-Pacific Belt due to the interaction of two oceanic plates.

Which of the statement given above is/are correct?

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

Q69. Consider the following pairs:

Location : Country

- 1. Nancowry Island group : India
- 2. La Soufriere Volcano : Laos



3. Plain of Jars : Jamaica

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

- a. 1 only
- b. 1 and 2 only
- c. 1 and 3 only
- d. 2 and 3 only

Q70. Where would you find ‘Gloups’, ‘stacks’ and ‘stumps’?

- a. In the Limestone topography of Andhra Pradesh
- b. Somewhere near the coast of Andaman and Nicobar Islands
- c. Towards the border between India and Pakistan across the Thar desert
- d. Near the Kalapani region of the Indo-Nepal border

Q71. In the context of Distribution of Continents and oceans, consider the following statements

- 1. The locations of oceans and land masses influences the Earth system.
- 2. The basaltic magma erupts out of the Mid Oceanic Ridges.

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

Q72. Which of the following is the most appropriate regarding seasons on Earth?

- a. Rotation of Earth around its axis is responsible for the occurrence of seasons
- b. Effect of seasonality is less pronounced in the areas within the tropics

c. Axial tilt of the Earth is responsible for the early arrival of spring in the Northern Hemisphere

d. There is a positive heat balance during the December solstice in the Northern Hemisphere

Q74. Consider the following statements

- 1. Weathering of rocks helps in the enrichment of certain ores.
- 2. Chemical weathering causes physical damage to rock.

Which of the statements given above are incorrect?

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

Q74. Consider the following statements:

- 1. The Sun’s magnetic field spreads throughout the solar system via solar winds.
- 2. Sunspots are relatively warmer than other parts of the sun.

Which of the statements given above is/are incorrect?

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

Q75. Consider the following pairs-
Type of Erosion : Features

- 1. Sheet erosion- Erosion through various narrow and zig-zag channels.
- 2. Gully Erosion- Deep channels are associated features.
- 3. Rill Erosion- A complete layer is carried along with water in a larger area.

Select the correct answer using the code below

- a. 1 and 2 only
- b. 2 only
- c. 1 and 3 only



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d. 1, 2, and 3

Q76. While travelling through the desert of Australia's Outbacks, you come across an isolated, flat-topped hill or mountain with steep sides that is smaller in area than a plateau." The landform you encountered is called?

- a. Graben
- b. Gloup
- c. Mesas
- d. Fjord

Q77. 'Rudaceous, Arenaceous and Argillaceous' are the types of?

- a. Igneous rocks
- b. Sedimentary rocks
- c. Metamorphic rocks
- d. Synthetic rocks

Q78. Which of the following countries is/are part of Golden Crescent?

- 1. China
- 2. Afghanistan
- 3. Iran
- 4. Pakistan

Select the correct answer using the code given below:

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

Q79. Kushiyara river is a distributary of which of the following river?

- a. Brahmaputra
- b. Barak
- c. Myntdu
- d. Gomati

Q80. Which of the following group of countries form part of the Lithium Triangle?

- a. Argentina, Bolivia, Chile
- b. Taiwan, Japan, South Korea

c. US, Japan, UK

d. China, Russia, Pakistan

Q81. Which among the following condition(s) is/are necessary for the formation of dew :

- 1. Clear sky
- 2. Calm air
- 3. Low relative humidity
- 4. Hot and long nights

Select the correct answer from the codes given below:

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

Q82. Consider the following statements regarding hurricanes:

- 1. In East Asia, violent, swirling storms that form over the Northwest Pacific are called hurricanes
- 2. Hurricanes need two main ingredients — warm ocean water and moist, humid air. Which of the above statement(s) is/are correct?

- a. 1 only
- b. 2 only
- c. both 1 and 2
- d. neither 1 nor 2

Q83. Concerning the general circulation of the atmosphere, consider the following statements:

- 1. Trade winds are the most regular of all planetary winds.
- 2. All the western coasts of the temperate zone receive Westerlies throughout the year.
- 3. Polar easterlies are more regular in the southern than in the northern hemisphere.

Which of the above statements is/are correct?

- a. 3 only
- b. 1 and 3 only
- c. 2 and 3 only



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d. 1,2 and 3

Q84. Which of the following are requirements for typhoon formation and development?

- (1) sufficiently warm sea surface temperatures
- (2) atmospheric stability
- (3) high humidity in the lower-to-middle levels of the troposphere
- (4) enough Coriolis effect to develop a low-pressure centre
- (5) a pre-existing low-level focus or disturbance
- (6) a low vertical wind shear.

Select the correct option using the code below:

- a. 1, 3 and 5
- b. 2, 4 and 6
- c. 1,3,4,5 and 6
- d. 1, 2,3,4,5 and 6

Q85. Concerning the Commercial Livestock Rearing, consider the following statements:

1. It is a specialized activity in which only one type of animal is reared.
2. It is less capital-intensive than nomadic herding.
3. It includes the rearing of animals on a scientific basis.

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 only

Q86. Which of the following countries are doubly landlocked?

- 1)Uzbekistan
- 2)Kyrgyzstan
- 3)Lesotho

Select the correct option using the code given below:

- a. 1 only

b. 1 and 2 only

c. 1 and 3 only

d. all of the above

Q87. Consider the following statements about Bomb Cyclone:

1. It is a large, intense midlatitude storm that has low pressure at its center.
2. It becomes a bomb when its central pressure decreases very quickly—by at least 24 millibars in 24 hours.

Which of the statements given above is/are incorrect?

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

Q88. Consider the following about some major water bodies in India.

1. Wular Lake is the largest freshwater lake in India.
2. Tsomoriri lake is a breeding ground for Black-necked Crane.
3. Renuka Lake is an artificial wetland.

Select the correct answer using the codes below.

- a. 1 and 3 only
- b. 2 and 3 only
- c. 1 and 2 only
- d. 1, 2 and 3

Q89. Which of the following are the characteristics of coniferous forests?

1. The leaves are broad-leafed and trees have a large spread which provides shade during the summer months.
2. There is no annual replacement of leaves.
3. They can be found in both tropical and temperate regions.

Select the correct option using the code given below:

- a. 1 and 2 only
- b. 1 and 3 only



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- c. 2 and 3 only
- d. 1, 2 and 3

Q90. How many of the following countries border Armenia?

1. Kuwait
2. Georgia
3. Turkey

Select the correct option using the code given below:

- a. Only 1
- b. Only 2
- c. All three
- d. none of the above

Q91. Iztium passage was recently seen in the news. In which of the following countries is the place located?

- a. Russia
- b. Ukraine
- c. China
- d. Taiwan

Q92. China shares borders with which among the following states/union territories of India?

1. Jammu-Kashmir
2. Ladakh
3. Sikkim
4. West Bengal
5. Arunachal Pradesh

Select the correct code using the option below:

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

Q93. The Sutlej-Yamuna Link (SYL) canal issue is the focal point of a water-sharing dispute between which two States in India?

- a. Punjab and Haryana
- b. Punjab and Himachal Pradesh

- c. Haryana and Rajasthan
- d. Haryana and Himachal Pradesh

Q94. Which of the following pairs is/are correctly matched?

1. Bering Strait: Canada and Russia
2. Malacca Strait: Malaysia and Singapore
3. Cook strait: Australia and New Zealand

Select the correct answer using the codes given below:

- a. 1 and 2 Only
- b. 1 and 3 only
- c. All of the above
- d. None of the above.

Q95. Consider the following statements about the salinity of ocean water:

1. Salinity is lower in equatorial and tropical regions as compared to temperate and polar regions.
2. Salinity of closed seas and lakes is higher than open seas and lakes.

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

Q96. These are geothermal features that depend on the interactions of released volcanic gases and the local groundwater system. The heat from the magma causes water to become steam. As the steam rises it carries volcanic gases such as hydrogen sulphide (H₂S) to the surface. Areas with these features are sometimes called "dying volcanoes" because they occur near the end stages of volcanic activity as the magma deep underground solidifies and cools.

This is the most likely description of?

- a. Hot springs
- b. Geysers
- c. Fumaroles



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d. Mudpots

Q97. Concerning Chile, which of the following statements is/are correct?

1. Chile is the largest trading partner of India in the Latin American region.

2. Its capital is Santiago.

Select the correct option using the code given below:

- a. 1 only
- b. 2 only
- c. both 1 and 2
- d. neither 1 nor 2

Q98. Which of the following are correct about Coarse Grains?

1. Coarse Grains are drought-resistant crop

2. Coarse grains are more resilient to extreme events

3. Coarse grains act as a probiotic feeding microflora in our ecosystem

Select the correct option 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

Q99. Which of the following is NOT possibly associated with the occurrence of El Nino Phenomena?

a. Negative impact on summer monsoon in India.

b. Improved fish catch off the South American Pacific Coast.

c. High air pressure in the western Pacific and low air pressure in the eastern Pacific.

d. Occurrence of droughts in Australia.

Q100. Consider the following statements about the Czech Republic:

1. The Czech Republic is a landlocked country in Central Europe.

2. Prague is the capital and largest city.

3. The Czech Republic has mostly temperate continental and oceanic climates.

Which of the above is/are incorrect? Select the correct answer using the codes below:

- a. 2 and 3 only
- b. 1 and 3 only
- c. 1 and 2 only
- d. 1,2 and 3