



# VISION IAS

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Test Booklet Series

TEST BOOKLET

C

GENERAL STUDIES (P) 2020 – Test–2978

Time Allowed: Two Hours

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. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C** OR **D** AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
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 with 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 direction in the answers sheet.
6. 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<sup>rd</sup> of the allotted marks** will be deducted.
7. 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.
8. 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.
9. 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**

1. With reference to thunderstorms, consider the following statements:
  1. During thunderstorms, lightning is produced by the clashing of cumulonimbus clouds in the upper air.
  2. During a thunderstorm, it is safer to stand below a tree than to sit inside a car.
  3. Distance to the storm can be calculated by observing the time difference between lightning and thunder.
 Which of the statements given above is/are **not** correct?
  - (a) 1 and 2 only
  - (b) 1 only
  - (c) 2 and 3 only
  - (d) 1, 2 and 3
2. Which of the following statements is **not** correct regarding the Dharwar rock system?
  - (a) It represents the rocks that were formed from the sediments derived from the denudation of Achaean gneisses and schists.
  - (b) Their distribution is confined to Peninsular India.
  - (c) Most of the Dharwar rocks are unfossiliferous rocks.
  - (d) The Dharwar systems of rocks are highly metalliferous.
3. Recently, the United Nations Environment Programme (UNEP) convened a two-day meeting to adopt the Colombo Declaration. The purpose of the declaration is:
  - (a) to halve nitrogen waste by 2030.
  - (b) to reduce carbon-dioxide emissions from agriculture.
  - (c) help farmers adapt to climate change.
  - (d) reduce levels of ozone pollution by 2025.

4. Which of the following characteristics can be associated with metamorphic rocks?
  1. Recrystallisation
  2. Foliation
  3. Abundant fossil presence
  4. Banding
 Select the correct answer using the code given below.
  - (a) 1 and 2 only
  - (b) 3 and 4 only
  - (c) 1, 2 and 4 only
  - (d) 1, 3 and 4 only
5. With reference to recently released 20th Livestock Census, consider the following statements:
  1. It is released by Ministry of Fisheries, Animal Husbandry & Dairying.
  2. The livestock population in India has increased in the past five years.
  3. Uttar Pradesh has the highest livestock population among states.
 Which of the statements given above are correct?
  - (a) 1 and 3 only
  - (b) 2 and 3 only
  - (c) 1 and 2 only
  - (d) 1, 2 and 3
6. Consider the following pairs:
 

<b>Mountain</b>	<b>Location</b>
1. Atlas Mountains	: North America
2. Zagros Mountains	: West Asia
3. Altai Mountains	: West Europe
4. Drakensberg Mountains	: South Africa

 Which of the pairs given above are correctly matched?
  - (a) 1 and 3 only
  - (b) 2 and 3 only
  - (c) 2 and 4 only
  - (d) 1, 3 and 4 only

7. Which of the following can be caused by an earthquake?
1. Liquefaction of sandy ground
  2. Change in the flow of groundwater
  3. Seiches formation in landlocked lakes
- Select the correct answer using the code given below.
- (a) 1 and 2 only
  - (b) 1 only
  - (c) 2 and 3 only
  - (d) 1, 2 and 3
8. With reference to Coral bleaching, consider the following statements:
1. Coral bleaching is a phenomenon in which the symbiotic relationship between algae and the host corals breaks down.
  2. Once bleaching takes place, coral reefs cannot recover from the loss.
  3. India has set up a coral bleaching alert system to report and issue warnings.
- 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
9. Consider the following locations:
1. Causses of France
  2. Yucatan Peninsula of Mexico
  3. Pennines of Britain
- What is the common characteristic of the regions given above?
- (a) They are the major limestone regions of the world.
  - (b) They are located on the convergent boundaries of tectonic plates.
  - (c) They witnessed the volcanic eruption in recent times.
  - (d) High grade Anthracite is available in these locations.

10. Consider the following pairs:

Wildlife Sanctuary	State
1. Sri Lankamalleswara	: Tamil Nadu
2. Kamlang	: Assam
3. Nal Sarovar	: Gujarat
4. Parambikulam	: Kerala

1. Sri Lankamalleswara : Tamil Nadu
2. Kamlang : Assam
3. Nal Sarovar : Gujarat
4. Parambikulam : Kerala

Which of the pairs given above are correctly matched?

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

11. With reference to Khon Ramlila, consider the following statements:

1. It is a masked form of dance drama based on the tales of Ramayana.
2. It is traditionally performed in the Nadda Habba festival of Mysore Dussera.

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

12. Consider the following statements with respect to Earth crust:

1. Continental crust is denser than Oceanic crust.
2. Oceanic crust is thinner as compared to the continental crust.
3. Earth's crust occupies around 1% of Earth's volume.

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

13. Consider the following rivers:

1. Damodar
2. Krishna
3. Mahanadi

Which of the following is the correct order of the rivers as one move from North to South?

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

14. With reference to Thermohaline circulation, consider the following statements:

1. It refers to the continuous replacement of seawater at depths with water from the surface.
2. It drives warmer surface waters polewards from the tropics.
3. It is faster than the wind-driven circulation of surface ocean currents.

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

15. Which of the following features are associated with the Rejuvenation of a river?

1. Knick Points
2. River terraces
3. Rapids

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

16. With reference to 'Bomb Cyclone', consider the following statements:

1. It is referred to a severe cyclone which gradually intensifies over a long period of time.
2. It is formed only in extra-tropical regions.
3. It is rare and occurs roughly once in a decade.

Which of the statements given above is/are correct?

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

17. With reference to C40 Clean Air Cities Declaration, consider the following statements:

1. It commits cities to set ambitious pollution reduction targets and implement substantive clean air policies by 2025.
2. It was an outcome of the Climate Summit held in Paris in 2015.

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

18. Consider the following differences between body waves and surface waves during an earthquake:

1. While Body waves are generated due to the release of energy at the focus, Surface waves are generated on account of the interaction of body waves with surface rocks.
2. Body waves are last to reach seismograph and more destructive as compared to the surface waves

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

- 19.** Which of the following belong(s) to the category of composite cone volcanoes?

1. Hawaii Volcanoes
2. Mt. Vesuvius
3. Mt. Fuji
4. Mt. Stromboli

Select the correct answer using the code given below.

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

- 20.** Consider the following statements with reference to the recently setup Renewable Energy Management Centres:

1. The centers help in forecasting renewable energy generation at state and regional levels.
2. They have been set up as part of the Green Energy corridor scheme.

Which of the statements given above is/are correct?

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

- 21.** Consider the following statements with respect to incised meanders:

1. It develops only by the lateral erosion of streams.
2. They are found as canyons and gorges in hard rocks.

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:

1. The Earth orbits around the Sun at a uniform speed.
2. Earth is closest to the Sun during the Northern Hemisphere's winter season.

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

- 23.** Consider the following statements with reference to Blockchain technology:

1. Blockchain stores its information in a centrally located server computers.
2. All the transactions are publicly recorded on the blockchain.
3. It has the potential to eliminate election fraud and boost voter turnout.

Which of the statements given above is/are correct?

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

- 24.** With reference to Rossby Waves, consider the following statements:

1. These are meanders in giant atmospheric winds or ocean currents.
2. If they remain stalled in the atmosphere for a long duration they can cause severe heatwaves and floods.

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

25. Consider the following pairs of Discontinuities and corresponding Earth layers:

<i>Discontinuity</i>	<i>Earth Layer</i>
1. Gutenberg discontinuity: Inner Core and Outer Core	: Inner Core and Outer Core
2. Mohorovicic discontinuity: Crust and mantle	: Crust and mantle
3. Lehman discontinuity: Mantle and Core	: Mantle and Core

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

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

26. At the time of the Solar noon at a place on the Earth:

- 1. The Sun crosses the local meridian
- 2. The Sun is at the lowest position of that day above the horizon.
- 3. The local time will always be 12 PM.

Which of the statements given above is/are correct?

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

27. Which of the following can be associated with volcanic eruptions?

- 1. Cooling of the local atmosphere.
- 2. Enriching the fertility of the surrounding soil
- 3. Metamorphism of the surrounding country rocks

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

28. Tombolo is associated with which of the following landforms?

- (a) Coastal landforms
- (b) Karst topography
- (c) Glacier landforms
- (d) None of the above

29. Consider the following statements regarding Standard Meridian of India and Indian Standard Time (IST):

- 1. Standard Meridian of India passes through six states.
- 2. The IST is also shared by neighboring Sri Lanka.
- 3. Recently the Government has formally accepted the Chaibagaan Time only for Assam which is an hour ahead of IST.

Which of the statements given above is/are correct?

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

30. With reference to Laterite soils, consider the following statements:

- 1. These soils develop in the area of low temperature and low rainfall.
- 2. These soils are rich in humus content.
- 3. These soils are highly fertile and intensely cultivated.

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

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



31. Consider the following regions of India:

1. Gulf of Mannar
2. Gulf of Kutch
3. Andaman and Nicobar Islands
4. The Lakshadweep Islands

Which of the regions given above have coral reefs?

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

32. With reference to Defence Acquisition Council (DAC), consider the following statements:

1. Its objective is to ensure expeditious procurement of the approved requirements of the Armed Forces.
2. It is headed by the National Security Adviser.

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

33. A residual hill consisting of hard rocks in an area eroded by the action of running water:

- (a) Cliffs
- (b) Stacks
- (c) Tableland
- (d) Monadnocks

34. Which of the following are the tributaries of river Godavari?

1. Penganga
2. Indravati
3. Pranhita
4. Amravati

Select the correct answer using the code given below.

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

35. Consider the following statements with respect to Tsunami:

1. They occur as a result of vertical movement of the seafloor.
2. The speed of the Tsunami wave increases as it approaches coastline.
3. The 2004 tsunami that hit India occurred due to the undersea earthquake near Sumatra.

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

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

36. In the context of weathering, consider the following statements regarding oxidation:

1. Oxidation occurs mostly in waterlogged areas.
2. When minerals in a rock oxidize, they become less resistant to weathering.
3. Iron oxide formed upon oxidation forms a reddish-brown coloured material.

Which of the statements given above is/are correct?

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

37. Recently Google has claimed to have achieved *Quantum supremacy*. Which of the following best explains the term 'Quantum supremacy'?

- It is the potential of Quantum computers to solve problems faster than classical computers.
- It means that artificial intelligence will be powered only by quantum computing.
- It is the potential of Quantum computers to solve problems that classical computers cannot perform in a normal lifetime.
- It means that Quantum mechanics has disproven most of the principles of classical mechanics.

38. Consider the following countries:

- China
- Myanmar
- Thailand
- Laos
- Malaysia

"River Mekong" passes through which of the given countries?

- 4 and 5 only
- 1, 2, 3 and 5 only
- 1, 2, 3 and 4 only
- 1, 2, 3, 4 and 5

39. Consider the following statements with respect to the India Justice Report:

- The report provides all information regarding the proceedings of the pending cases in the judiciary.
- It is published by NITI Aayog.

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

40. Consider the following statements with respect to Anticlines and Synclines in normal strata:

- In anticlines, the youngest rocks occur in the center of a fold whereas the oldest rocks occur in the center of a syncline.
- Anticlines act as good traps for Hydrocarbon resources whereas Synclines have less ability to trap oil and natural gas.

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

41. With reference to the National Council for Promotion of Urdu Language (NCPUL), consider the following statements:

- It is an autonomous body under the Ministry of Human Resource Development (HRD).
- Its chairperson is appointed by the Appointments Committee of the Cabinet.

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

42. Which of the following factors is primarily responsible for the formation of screes?

- Wind action
- Frost action
- Biotic Factors
- Washing away of rock minerals



- 43.** Which of the following statements best describes "Soil Impoverishment"?
- It denotes a condition that results from the accumulation of soluble salts in soil.
  - It is a process that involves the removal of nutrients from the soil.
  - It refers to the wearing away of a field's topsoil by the natural physical forces of water and wind.
  - It is downward and outward movement of rock and sediments on a sloped surface, mainly due to the force of gravity.

- 44.** The union territory of Puducherry has enclaves in which of the following states of India?

- Karnataka
- Andhra Pradesh
- Tamil Nadu
- Kerala

Select the correct answer using the code given below.

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

- 45.** With reference to Drone Innovators Network, consider the following statements:

- It was established to help overcome common challenges regulators are facing in enabling drones and unmanned aviation.
- It was established by the International Civil Aviation Organization.

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

- 46.** Ritchie's Archipelago and Labyrinth island are found in
- Bay of Bengal
  - Arabian Sea
  - South China Sea
  - Mediterranean Sea

- 47.** Consider the following statement with respect to Indian Plate:

- Eurasian plate has been sinking below the Indian Plate to form the Himalayas.
- Deccan traps were formed due to volcanic eruptions after the Himalayan mountain building was started.
- Indian plate boundaries include both convergent and divergent boundaries.

Which of the statements given above is/are correct?

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

- 48.** With reference to the evolution of the Earth's atmosphere, consider the following statements:

- The earliest atmosphere of the Earth is believed to have been composed of primarily Hydrogen and Helium.
- Outgassing from volcanos led to predomination of water vapour in the Earth's atmosphere.
- Permanent gases in the current atmosphere include Nitrogen, Ozone and Water Vapour.

Which of the statements given above are correct?

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

49. With reference to Bioterrorism, consider the following statements:

1. It is the intentional release of viruses, bacteria, or other germs that can sicken or kill people, livestock, or crops.
2. Anthrax is one of the most potent agents used for bioterrorism.

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

50. With reference to membership of UN Human Rights Council, consider the following statements:

1. All members of the UN General Assembly are the members of the council.
2. It does not have the authority to take impose legal penalty on the violating country.
3. Its headquarters are in Paris, France.

Which of the statements given above are **not** correct?

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

51. Consider the following statements about the International Date Line:

1. It is an imaginary straight line running from North pole to South pole that separates one day from another.
2. A traveler crossing the dateline from east to west gains a day.
3. It passes through the Bering Strait.

Which of the statements given above is/are correct?

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

52. Consider the following pairs:

**Rivers**

**Originate from**

1. Teesta : Tso Lhamo Lake
2. Kaveri : Mahabaleshwar
3. Krishna : Brahmagiri hills

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

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

53. Consider the following rocks:

1. Coal
2. Potash
3. Chert
4. Slate

Which of the rocks given above belong to the category of sedimentary rocks?

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

54. Consider the following statements:

1. The western coastal plains and eastern coastal plains meet at Kanyakumari.
2. The western coastal plains are wider than the eastern coastal plains.
3. The Kolleru and Pulicat lakes are located on the eastern coast of India

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

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

55. Consider the following statements:
1. Meteor is a meteoroid that survives its passage through the Earth's atmosphere and lands upon the Earth's surface.
  2. Comet is an astronomical object whose ice can vaporize in sunlight forming a tail of dust and gas.
  3. Nebula is an interstellar cloud of dust, hydrogen, helium.

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

56. In the context of meteorology, 'Blocking High' refers to:

- (a) An anticyclone that changes the direction of cyclonic depressions.
- (b) Temperature inversion obstructing the rise of warm air.
- (c) A sudden increase in summer temperature leading to delay in the onset of monsoons.
- (d) An orographic obstruction that forces precipitation on the windward side.

57. *It is a biosphere reserve located in the Indian state of Arunachal Pradesh. The biosphere reserve covers a part of Mouling National Park. The reserve spreads over Upper Siang and West Siang districts. It covers the high mountains of Eastern Himalaya and Mishmi Hills.*

Which of the following biosphere reserve is being described in the above passage?

- (a) Dibru-Saikhowa Biosphere Reserve
- (b) Dihang-Dibang Biosphere Reserve
- (c) Nokrek Biosphere Reserve
- (d) Manas Biosphere Reserve

58. Consider the following statements regarding the Common Earth Conference:

1. It is an initiative of the G20 group of countries.
2. It will facilitate the collaboration of different disciplines and projects focused on restorative, regenerative approaches to addressing climate change.

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

59. Consider the following pairs:

<i>Landform</i>	<i>Description</i>
1. Pointbar	: Depositional feature associated with river
2. Stalactite	: Erosional feature associated with groundwater
3. Sief	: Erosional landform associated with wind

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

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

60. Arrange the following regions of the Solar system in the order from nearest to farthest from the Earth.

1. Rings of the Saturn
2. Asteroid belt
3. Oort cloud
4. Kuiper belt

Select the correct answer using the code given below.

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

**61.** With reference to the recent developments in genetic engineering, which of the following statements is/are correct?

1. 'Exome sequencing' is the sequencing of that portion of the genes which are responsible for making proteins.
2. It has been established that the non-exome portions do not affect the functioning of the genes.

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

**62.** Consider the following passage with respect to Earth's geological history:

"It is a buried erosional or non-depositional surface separating two rock strata of different ages. It represents a break in the geologic record. The interval of geologic time not represented is called a hiatus. "

Which of the following is being described in the passage given above?

- (a) Unconformity
- (b) Intrusion
- (c) Fault Plane
- (d) Country rocks

**63.** Consider the following rivers:

1. Luni
2. Son
3. Mahi
4. Falgu

Which of the rivers given above are ephemeral in nature?

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

**64.** Climate change can occur due to:

1. increase in the sunspot activities.
2. fluctuating or unsteady motion of the earth.
3. changes in the earth's axial tilt.

Select the correct answer using the code given below.

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

**65.** Recently researchers discovered special properties in Semi-Dirac metals. Which of the following statements is/are correct with reference to such metals?

1. Semi-Dirac metals behave like normal metals as well as Dirac metals.
2. Their conductive properties are usually direction-dependent.
3. They could be used in creating clean energy technology.

Select the correct answer using the code given below.

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

**66.** Consider the following statements with respect to Big Bang theory:

1. It proposes that all of the current and past matters in the Universe came into existence at the same time.
2. The Universe of a few billion years ago was a few degrees colder than the present Universe.
3. It considers that the Universe is expanding even today.

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

67. SONIA, SOFR, Estr recently seen in news are:

- (a) Cyclones that originated in Bay of Bengal
- (b) Ransomware
- (c) Cryptocurrencies
- (d) Benchmark interest rates

68. Sargasso sea is surrounded by four ocean currents. Which of the following are included in these currents?

1. Canary current
2. Gulf Stream
3. North Atlantic Equatorial current
4. Labrador current

Select the correct answer using the code given below.

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

69. Which of the following conditions are conducive to the spreading of forest fires?

1. Long spells of hot and dry weather
2. Presence of katabatic winds
3. Cyclonic conditions in the lower atmosphere

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

70. With reference to National e-Assessment Scheme, consider the following statements:

1. It aims to facilitate faceless assessment of income tax returns through completely electronic communication between tax officials and tax payers.
2. It is an initiative of Central Board of Direct Taxation (CBDT).

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

71. Which of the following are the likely reasons for the delay in the monsoon?

1. Madden Julian Oscillations
2. El Nino
3. Cyclonic Formation
4. Western disturbances

Select the correct answer using the code given below.

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

72. Consider the following statements:

1. More number of Indian states share border with Bangladesh than with Nepal.
2. Sir Creek, a tidal estuary, is a disputed zone between India and Pakistan.

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

73. Which of the following statements is **not** correct regarding the Himalayan Mountain ranges?

- (a) Igneous rocks are not present in the Himalayan ranges.
- (b) The rocks accumulated in Tethys geosyncline were folded to form Himalayan ranges.
- (c) Duns are the longitudinal valley lying between lesser Himalaya and the Shiwaliks.
- (d) In place of Shiwaliks duar formations are found in Arunachal Himalayas.

74. *It is a creation of sixteenth-century saint-reformer Srimanta Sankardeva. It is a traditional form of entertainment in local languages which was used to convey religious messages to villagers. It's a musical, performed with traditional instruments and different hard and fast sequences.*

*Which of the following art form is being described in the above passage?*

- (a) Chhau dance
- (b) Thangta dance
- (c) Bhoana theatre
- (d) Bhand Pather theatre

75. Consider the following statements:

1. A solar eclipse can only take place at the phase of the full moon.
2. A Lunar eclipse can only take place at the phase of the new moon.
3. During solar and lunar eclipses Earth, Sun and Moon are in syzygy configuration.

Which of the statements given above is/are correct?

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

76. Recently the government released a special commemorative coin to mark the 125th birth anniversary of Paramhansa Yogananda. Which of the following statements is **not** correct about Paramhansa Yogananda?

- (a) He popularised Yoga and Meditation predominantly in the Asian sub-continent.
- (b) He preached a non-sectarian, universal spiritual path of self-realization.
- (c) The renowned book 'Autobiography of a Yogi' is based on his life.
- (d) He established a non-profit religious organization Yogoda Satsanga Society of India to spread his teachings.

77. Recently the Society for Neuroscience has raised concerns about growing progress in development on Organoids. Consider the following statements with reference to "Organoids":

1. They are a group of cells grown in laboratories that mimic the cell arrangement of a fully-grown organ.
2. Stem cells form the fundamental building blocks of organoids
3. They can be used to study the safety and efficacy of new drugs.
4. Until now, organoids of no particular organ have been developed in a fully functional manner.

Which of the statements given above are correct?

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



78. Which of the following is/are the characteristics of an air mass?

1. It has uniform physical properties throughout the horizontal and vertical dimensions.
2. Their properties are determined by the underlying region from where they originate.

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

79. With reference to peaty soils, consider the following statements:

1. They are formed in the areas of heavy rainfall and high humidity.
2. They are rich in humus and organic content.

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

80. *It is a 2000 years old monastic complex located in Andhra Pradesh. The site 'flourished' from 2nd Century BC to almost 2nd Century AD. The site was a major 'Hinayana Buddhist monastery complex, which had links with Sri Lanka. The maha stupa in this monastery was reconstructed by the state government using modern bricks and building materials in 2016. The mahastupa in this monastery recently collapsed following heavy rains.*

Which of the following monasteries is being described in the above passage?

- (a) Thotlakonda
- (b) Thiksey
- (c) Salihundam
- (d) Rumtek

81. Consider the following statements with respect to the action of Coriolis force:

1. Usually if one stands with the back to the wind in the Northern hemisphere, the pressure to the left is lower than to the right.
2. An object in motion in the Southern Hemisphere will deflect to its left.

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

82. Recently, a new fossil record of bamboo has shown that India is the birthplace of Asian bamboo. In which part of India has it been discovered?

- (a) Nilgiri Forests
- (b) Malabar coast
- (c) Palani Hills
- (d) Assam coalfields

83. With reference to Island arcs, consider the following statements:

1. They are formed near the subduction zone at the convergent boundary of two tectonic plates.
2. Deep-focus earthquakes and volcanoes occur frequently at the site of island arcs.
3. Islands of Japan and the Aleutian Islands are examples of Island arcs.

Which of the statements given above is/are correct?

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

84. Which of the following is/are the characteristics of the peninsular rivers:
1. shifting course
  2. absence of meanders
  3. perennial flow of water
- Select the correct answer using the code given below.
- (a) 1 and 2 only
  - (b) 2 only
  - (c) 1 and 3 only
  - (d) 2 and 3 only
85. With reference to the School Education Quality Index (SEQI), consider the following statements:
1. It was developed to evaluate the performance of States and Union Territories (UTs) in the primary school education sector only.
  2. It is developed by the Ministry of Human Resource and Development (MHRD).
  3. The indicators do not include the governance processes involved in education like teacher attendance and training.
- Which of the statements given above is/are correct?
- (a) 1 and 3 only
  - (b) 2 and 3 only
  - (c) 2 only
  - (d) None
86. Arrange the following states in the descending order of the percentage of forest cover to the total area of the state:
1. Arunachal Pradesh
  2. Meghalaya
  3. Kerala
  4. Sikkim
- Select the correct answer using the code given below.
- (a) 1-4-2-3
  - (b) 4-1-2-3
  - (c) 2-1-3-4
  - (d) 1-2-3-4

87. Consider the following statements with respect to spring tides.
1. Spring tides occur when the Earth, sun, and moon are nearly in alignment.
  2. In spring tides high tides are little higher and low tides are little lower than average tide.
  3. They occur on the new moon and full moon days.
- Which of the statements given above is/are correct?
- (a) 1 and 2 only
  - (b) 2 and 3 only
  - (c) 1 and 3 only
  - (d) 1, 2 and 3
88. If you are travelling from the Black Sea to the Mediterranean Sea via the shortest sea route, which of the following straits are you likely to encounter?
1. Strait of Bosphorus
  2. Strait of Gibraltar
  3. Strait of Dardanelles
- 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
89. Consider the following statements, with reference to Grasslands:
1. Extreme Diurnal range of temperature is the characteristic feature of Savanna Grasslands.
  2. Llanos, Pampas and Prairies are grasslands found in South-America.
- 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

**90.** Recently, traces of plastics have been reportedly making their way to the Arctic circle via ocean currents from the tropics. In this context, which of the following ocean currents transport warm tropical waters to the Arctic ocean?

1. Labrador Current
2. Benguela current
3. West Spitsbergen Current
4. Gulf Stream

Select the correct answer using the code given below.

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

**91.** With reference to Westerlies, consider the following statements:

1. They are winds which form a Ferrel cell circulation.
2. In the southern hemisphere, they are primarily responsible for driving the 'Antarctic Circumpolar Current'.
3. They are stronger in the Northern hemisphere as opposed to the Southern hemisphere.

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

**92.** Consider the following statements with reference to the International Solar Alliance:

1. Countries that do not fall within the Tropics can join the alliance but have no voting rights.
2. The Asian Development Bank (ADB) will mobilize around \$100 billion in investments by 2030 to meet the goals of the alliance.
3. It offers membership to diverse stakeholders such as civil society organizations, expert agencies, etc.

Which of the statements given above is/are correct?

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

**93.** Consider the following statements:

1. The actual distance measured from north to south extremity of India is less than that of the east to west extremity.
2. Tropic of Cancer passes through eight states of 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

**94.** Which of the following are examples of Depositional plains?

1. Till plain
2. Coastal Plain
3. Peneplains
4. Pediplains

Select the correct answer using the code given below.

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

95. The government has recently launched 'PRAKASH' portal to:
- bring better coordination in coal supplies to power plants.
  - expedite and streamline passenger grievance redressal in railways.
  - settle the delayed payments to MSME industries.
  - to facilitate e-bidding for road projects.

96. *Slump*, *Rockslide* and *Debris slide* are examples of
- Volcanoes
  - Slow mass movements
  - Rapid Mass Movement
  - Subsidence

97. With reference to Government e-Marketplace (GeM), consider the following statements:
- GeM is a one stop portal to facilitate online auction of Government properties and assets.
  - This portal comes under administrative control of Ministry of Commerce and Industries.

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

98. Consider the following statements with respect to Oceanic deposits:
- The pelagic deposits consist of both organic and inorganic material.
  - Red clay in the ocean basin is an accumulation of volcanic dust.
  - The oozes are made of shell and skeletal remains of marine microorganisms.
- Which of the statements given above are correct?

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

99. For which of the following discoveries/inventions has the Nobel Prize in Physics, 2019 been awarded?

- Theoretical discoveries in physical cosmology.
- Discovery of an exoplanet orbiting a solar-type star.
- Groundbreaking inventions in the field of laser physics.

Select the correct answer using the code given below.

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

100. According to the Indian Council of Agricultural Research (ICAR) classification of the Indian soils which of the following soil orders have maximum area coverage in India?

- Inceptisols
- Vertisols
- Mollisols
- Entisols