

1. Consider the following statements with reference to the Initiative on Climate Action and Nutrition (I-CAN) :

1. Launched at the 27th session of UNFCCC in partnership with WHO, FAO and Global Alliance for Improved Nutrition.
2. The goal of I-CAN is to support member and non-member states in delivering climate change adaptation and mitigation policy action besides improving nutrition.

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

2. Consider the following statements with reference to Global Methane Initiative (GMI) :

1. GMI was created in 2004 to achieve a global reduction in anthropogenic methane emissions.
2. India has been one of the members since its inception.
3. It is a voluntary Government and an informal international partnership among developing countries having economies in transition and under developed countries.

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

3. Consider the following statements :

1. The National Clean Air Programme, administered by the Central Pollution Control Board, is a nationwide program to keep track of ambient air quality.
2. Particulate Matter containing sulphur or nitrogen compounds has a warming effect on the local and global climate.

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

4. With reference to Global Warming potential (GWP), consider the following statements :

1. The Global Warming Potential (GWP) was developed to compare the global warming impacts in different countries.
2. The GWP is a measure of the heat absorbed over a given time period relative to CO₂ due to emissions of gases.
3. The GTP (Global Temperature Potential) is a measure of the temperature change at the end of that time period relative to methane.
4. Methane takes more time to break down in the atmosphere than carbon dioxide.

Which of the statements given above is/are correct ?

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

5. "POP FAME" recently seen in the media is related to which one of the following ?

- (a) Rocket fuel from bacteria
- (b) Music festival of Nagaland
- (c) Space science award given by JAXA
- (d) Indigenously developed medicine treat Conjunctivitis caused by Bacteria

6. Which one of the following is the correct sequence in the decreasing order of contribution of global greenhouse gas emissions ?

- (a) China-United States-India-European Union
- (b) United States-China-India-European Union
- (c) European Union -United States-China-India
- (d) European Union-United States- India-China

7. With reference to Carbon sequestration, consider the following statements :

- 1. The London Convention and London Protocol are international regulatory instruments in carbon capture and sequestration in marine environment.
- 2. Indian Council of Forestry Research and Education established the National Centre of Excellence in Carbon Capture and Utilisation at IIT-Bombay.
- 3. CCUS (Carbon Capture Utilisation and Storage) are helpful in enhancing oil and gas recovery.

Which of the statements given above is/are correct?

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

8. Global Methane Assessment: Benefits and Costs of Mitigating Methane Emissions is launched by which one of the following ?

- (a) Climate & Clean Air Coalition and UNEP
- (b) United Nations Framework Convention on Climate Change.
- (c) Intergovernmental Panel on Climate Change and Blue Green Alliance
- (d) Clean Air Task Force.

9. With reference to Climate Impacts on Agriculture and Food Supply, consider the following statements :

- 1. Premature budding in cherries.
- 2. Reduction in fertility and milk production in animals.
- 3. Increase in productivity of pastures with a decrease in their quality.
- 4. Increase in C4 plant's competition against C3 crops.
- 5. Climate change may increase the amount of arable land.

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

- (a) 1, 2, 3 and 4 only
- (b) 1, 2, 3 and 5 only
- (c) All of the above
- (d) None of the above

10. Consider the following statements :

1. The Climate and Clean Air Coalition (CCAC) is a voluntary partnership of governments and civil society organizations to reduce short-lived climate pollutants.
2. CCAC focuses on carbon dioxide, methane, chlorofluorocarbons, and tropospheric ozone.
3. CCAC's vision is to stabilize the climate with warming limited to 1.5°C and drastically reduce air pollution.

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

11. Consider the following :

1. Adriatic Sea
2. Aegean Sea
3. Bosphorus strait
4. Black Sea
5. Sea of Marmara
6. Kerch Strait
7. Tyrrhenian Sea

Select the correct shortest sequence to travel from the Mediterranean Sea to the Sea of Azov using the code given below :

- (a) 1-3-4-5-7
- (b) 2-5-3-4-6
- (c) 1-2-3-5-7
- (d) 2-3-4-5-6

12. Consider the following statements :

1. Climate-smart agriculture (CSA) is an integrated approach to manage landscapes, cropland, livestock, forests and fisheries.
2. In India, the Climate Smart Village approach is led by FAO.

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

13. Consider the following statements :

1. "National solar mission" aims the development of large-scale and rooftop solar projects and trading of solar power.
2. Solar Energy Corporation of India (SECI) is a company under the Ministry of New and Renewable Energy to facilitate the implementation of the National Solar Mission (NSM).

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

14. Consider the following statements :

1. Market Transformation for Energy Efficiency (MTEE) scheme aims at improving efficiency in energy-intensive sectors.
2. PAT(Perform Achieve and Trade) scheme is a flagship program of the Bureau of Energy Efficiency.
3. PAT scheme helps in the shift towards energy-efficient appliances.

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 only

15. Consider the following statements with reference to SWAMIH Investment Fund :

1. It is a social impact fund aimed at providing priority debt financing for the completion of stressed and brownfield residential projects.
2. The fund is sponsored and managed by SBICAP Ventures, a unit of the State Bank 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

16. Consider the following statements :

1. India's National Mission on Sustainable Habitat seeks to promote energy efficiency in buildings through the energy conservation building code.
2. The New Urban Agenda was adopted at the United Nations Framework convention on climate change for sustainable urban development.

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

17. The Global Climate Change Alliance Plus (GCCA+) is an initiative of which one of the following ?

- (a) UNFCCC
- (b) European Union
- (c) World Meteorological Organisation
- (d) Intergovernmental Panel on Climate Change

18. With reference to UN-REDD and REDD+, consider the following statements :

1. UN-REDD is a multilateral collaborative program of the World Bank, UNDP and United Nations Environment Programme.
2. REDD+ is a voluntary climate change mitigation approach that has been developed by Parties to the UNFCCC.
3. Implementation of the REDD+ program will always strengthen the Rights of Forest Tribals and Other Traditional Dwellers
4. REDD+ helps achieve poverty reduction, health and well-being.

Which of the statements given above is/are correct ?

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

19. Consider the following statements :

1. India launched the "P3 movement" that underlines climate change commitments at WEF Davos Agenda 2022.
2. P3 is a part of the National Action Plan on Climate change (NAPCC) which creates an ecosystem to be self-sustainable.

Which of the statements given above is/are correct ?

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

20. Consider the following statements with reference to 'loss and damage' in response to climate change :

1. Article 8 of the Paris Agreement enshrines the role of sustainable development in reducing the risk of loss and damage.
2. Limiting global temperature to close to 1.5°C would substantially reduce projected losses and damages and eliminate them all.
3. The Glasgow Dialogue was established in COP 26 between Parties and stakeholders to discuss the funding arrangements to avert, minimize and address loss and damage.

Which of the statements given above is/are correct ?

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

21. Consider the following statements :

1. At COP26, the Forest and Climate Leaders' Partnership (FCLP) was launched.
2. FCLP helps to scale up action to halt and reverse forest loss and land degradation by 2050.
3. Supporting Indigenous Peoples' and local communities' initiatives is one of the action areas of FCLP.

Which of the statements given above is/are correct ?

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

22. Consider the following statements :

1. A LEDS (Low Emission Development Strategy) is a policy instrument that identifies the sources of a country's GHG emissions.
2. A LEDS helps to improve framework conditions for private sector investment in mitigation actions.
3. Through LEDS some countries focus only on the mitigation aspect of climate change.
4. India submitted its Long-Term Low Emission Development Strategy to the UNFCCC at COP26.

Which of the statements given above is/are correct ?

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

23. Which of the following are the effects of sea level rise due to climate change ?

1. Leads to “drowning” wetlands
2. Out-migration of people
3. Decrease in surface area of the oceans
4. Contaminates soil and groundwater
5. Occurrence of Global Stilling
6. Rapid melting of ice sheets

Select the correct answer from the code given below:

- (a) 1, 2, 3, 4 and 5 only
- (b) 1, 3, 5 and 6 only
- (c) 1, 2, 4, 5 and 6 only
- (d) 1, 2, 3, 4 and 6

24. Consider the following statements :

1. The Global Lighthouse Network is a World Bank initiative in collaboration with McKinsey & Company.
2. The Global Lighthouse Network is a community of manufacturers that leads in applying Fourth Industrial Revolution technologies.

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. With reference to Climate Neutral Now Initiative, consider the following statements :

1. It was launched by the World Meteorological organisation to increase climate action by engaging non-Party stakeholders.
2. Its mandate is to promote the voluntary use of carbon market mechanisms.
3. The Climate Neutral Now Initiative has no participation fee.
4. A participant can stop participating at any point in time.

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

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

26. Consider the following statements :

1. The Accelerating to Zero coalition (A2Z) was launched at COP27.
2. It amplifies the progress in ZEVs (Zero Emission Vehicles) and promotes zero air pollution all over the earth.
3. India is not a signatory to A2Z.

Which of the statements given above is/are correct ?

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

27. Consider the following statements :

1. NASA's Martian Moons Exploration (MMX) is a robotic space probe set for launch in 2024 to bring back the first samples from Mars' largest moon Phobos.
2. It was designed to clarify the origin of the Martian moons and the process of evolution for the Mars region.

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

28. Which of the following best describes the Environment Impact Assessment (EIA) ?

- (a) It is the process of identifying, predicting and evaluating the bio-physical and social effects of development proposals to make decisions.
- (b) It is a decision-making tool that compares various alternatives for a project and seeks to identify the best combination of economic and environmental costs.
- (c) EIA is a decision-making tool that identifies the environmental and social impacts of a project.
- (d) None of the above

29. With reference to the World Heritage Committee (WHC), consider the following statements :

1. The World Heritage Committee is composed of 21 members elected by their General Assembly.
2. The Committee allocates financial assistance to the parties.
3. WHC can decide on the inscription but cannot decide on the deletion of properties on the List of World Heritage in Danger.

Which of the statements given above is/are correct ?

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

30. Consider the following statements with reference to the Eastern Ghats :

1. It is an ancient discontinuous low mountain range older than the Western Ghats.
2. Eastern Ghats Wildlife Society (EGWS) is an initiative of the Environmental ministry which promotes community-based wildlife conservation in the Eastern Ghats region.
3. Soara, Kol, Chenchus, and Paliars are the tribes of Eastern Ghats.

Which of the statements given above is/are correct ?

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

31. Consider the following statements with reference to the Saguna Rice technique (SRT) :

1. SRT is a Conservation Agriculture type of cultivation method developed by the Indian Council for Agriculture Research.
2. SRT insists that all roots and small portions of the stem should be left in the beds for slow rotting.
3. SRT system avoids the usage of weedicides to control weeds.
4. The SRT system helps in the early harvesting of crops.

Which of the statements given above is/are correct ?

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

32. Which of the following are the environmental effects of stratospheric ozone depletion?

1. Affects both orientation and motility in phytoplankton
2. Synthetic polymers are adversely affected
3. Snow blindness

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

33. Which of the following substances are controlled under the Montreal Protocol ?

1. CFCs
2. Halons
3. Methyl bromide
4. Ammonia
5. Methyl Chloroform
6. Propane

Select the correct answer from the code given below :

- (a) 1, 2, 3 and 5 only
- (b) 1, 5 and 6 only
- (c) 1, 2, 3, 4 and 5 only
- (d) 1, 2, 3, 4, 5 and 6

34. With reference to Hotspots and cool spots, Consider the following statements :

1. Western Ghats is recognized as one of the world's 'hottest hotspots' of biological diversity.
2. Cool spots are areas of the ocean that merits special protection because of its wildlife and significant underwater habitats.

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

35. Hunger hotspots outlook Report 2022 is released by which one of the following ?

- (a) Food and Water watch
- (b) World Wildlife Fund for Nature
- (c) Concern Worldwide and Welthungerhilfe
- (d) None of the above

36. Consider the following statements :

- 1. Methane is the primary contributor to the formation of ground-level ozone, a hazardous air pollutant.
- 2. 'System of Rice Intensification (SRI)' of cultivation results in increased methane production.
- 3. Methane increases the amount of hydroxyl radicals available to remove other types of air pollutants.

Which of the statements given above is/are correct ?

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

37. Consider the following statements :

- 1. In India, the phasing-out of HCFCs in all manufacturing sectors will be completed by 2025.
- 2. The UN adopted F- gas regulation to control emissions from fluorinated greenhouse gases, including HFCs.
- 3. The Kigali Amendment aims for the phase-down of hydrofluorocarbons with a goal to achieve 85% reduction in HFC consumption by 2047.

Which of the statements given above is/are correct ?

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

38. Consider the following statements :

- 1. Ocean acidification is an increase in the pH of the ocean, as carbonic acid increases due to the dissolving of carbon dioxide.
- 2. Ocean Acidification is referred to as the 'Evil Twin' of Global Warming.
- 3. The IAEA's Ocean Acidification International Coordination Centre (OA-ICC) promotes international collaboration on ocean acidification.

Which of the statements given above is/are correct ?

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

39. Consider the following statements :

- 1. UNESCO's International Geoscience Programme facilitates international scientific cooperation in geosciences.
- 2. Mawmluh Cave (Krem Mawmluh), in Assam, is listed as one of the 'First 100 International Union of Geological Sciences Geological Sites' in the world.
- 3. UNESCO is the only United Nations organization with a mandate to support research and capacity in geology and geophysics.

Which of the statements given above is/are correct ?

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

40. Consider the following statements with reference to the effects of climate change on land :

1. Climate change can convert land areas from one biome to another.
2. Agriculture, forestry and other land use results in both emissions and removals of CO₂, CH₄ and N₂O to and from the atmosphere.
3. The decrease in the emissions of biogenic volatile organic compounds resulted in a negative radiative forcing.
4. Communication between phytophagous insect pests and their host plants would be affected.

Which of the statements given above is/are correct ?

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

41. Consider the following statements with reference to UNFCCC's Sustainable Development Mechanism (SDM) :

1. SDM supports the implementation of the Clean Development Mechanism (CDM), Joint Implementation and International Emissions Trading.
2. The SDM is an offsetting tool in complement to the mechanisms established under the Kyoto Protocol.
3. SDM manages the Non-State Actor Zone for Climate Action platform and supports the COP Presidencies' Climate Action Champions.

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

42. Consider the following statements :

1. UNFCCC's COP 27 decides to establish the Advisory Board of the Santiago network as part of the Warsaw International Mechanism.
2. Warsaw International Mechanism associated with the Programme on the Action for Climate Empowerment.
3. At COP 27, the G7 and the V20 launched the Global Shield against Climate Risks, with new commitments of over USD 200 million as initial funding.

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

43. Consider the following statements :

1. *Trametes maxima* IIPLC-32 is a bacteria capable of removing toxic and carcinogenic polycyclic aromatic hydrocarbons (PAHs) from the environment.
2. It was identified by the CSIR-Indian Institute of Petroleum, Dehradun.
3. Pyrene belongs to the highly toxic class of PAHs, with carcinogenic and mutagenic properties.
4. Pyrene is used to make dyes, plastics and pesticides.

Which of the statements given below is/are correct ?

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

44. Consider the following statements :

1. Green Gigaton Challenge is a global initiative by Emergent and the UN Environment, supported by the Environmental Defense Fund.
2. Green Gigaton Challenge brings together a coalition of public, private and philanthropic partners to channelise funds for REDD+.

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

45. Consider the following statements :

1. The BioCarbon Fund Initiative for Sustainable Forest Landscapes (ISFL) is a multilateral facility that promotes and rewards reduced greenhouse gas emissions.
2. BioCF Tranche 3, an arm of the International Monetary Fund, provides results-based finance through the purchase of verified emissions reductions.

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

46. Biological Diversity (Amendment) Bill, 2021 sometimes seen in the news recently, seeks to amend the Biological Diversity Act, 2002 to :

1. Encourage the Indian system of medicine and cultivation of wild medicinal plants
2. Facilitate fast-tracking of processes for research, patent application, and transfer of research results
3. Criminalize offenses under the act
4. Encourage foreign investment in the sector
5. Include references to the Nagoya Protocol

Select the correct answer from the codes given below :

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

47. 'Aashwasan Campaign' recently seen in the media related to which one of the following ?

- (a) It is a door-to-door screening for TB under Tribal TB Initiative.
- (b) Campaign where participants came together for a fit (Swasth) and litter-free (Swachhta) India under fit India.
- (c) It is an awareness and protection drive around the world to protect big cats by encouraging people not to purchase illegal wildlife products.
- (d) It is a global campaign to influence the formulation and implementation of policies leading to Universal Public Health Coverage.

48. Consider the following statements with reference to the Cartagena Protocol :

1. India is a signatory to the Protocol but ratified it very recently.
2. Each party to the Protocol is required to protect confidential information received under the Protocol.
3. It does not address the obligations of Parties in relation to the transboundary movements of living modified organisms to and from non-Parties to the Protocol.
4. It covers living modified organisms that are pharmaceuticals for humans, even if they are covered by other international agreements.

How many statements given above is/are correct ?

- (a) Only one statement
- (b) Only two statements
- (c) Only three statements
- (d) All four statements

49. Consider the following statements with reference to the post-2020 global biodiversity framework :

1. The framework has 21 targets for 2030 to preserve and protect nature and its essential services to people.
2. The framework has 4 long-term goals to be attained by 2050.
3. It aims to prevent or reduce the rate of introduction and establishment of invasive alien species by 50%.
4. The framework is legally binding in nature.

How many statements given above is/are correct ?

- (a) Only one statement
- (b) Only two statements
- (c) Only three statements
- (d) All four statements

50. Consider the following statements with reference to the Genetic Engineering Appraisal Committee :

1. It is a statutory committee constituted under certain rules framed under Environment (Protection) Act, 1986.
2. Clearance of the Genetic Engineering Appraisal Committee is mandatory for the environmental release of Genetically Modified crops.
3. It does not have any power to take punitive action.
4. It has the power to appraise activities involving large-scale use of hazardous microorganisms and recombinants in research and industrial production from the environmental angle.

Which of the statements given above are correct?

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

51. Arrange the following ores in the order of increasing iron content :

1. Limonite
2. Siderite
3. Haematite
4. Magnetite

Select the correct answer using the code given below :

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

52. Consider the following statements with reference to the Himalayas :

1. It is a complex mountain system formed mostly of sedimentary and metamorphic rocks.
2. The Shiwaliks are separated from the Northern Plains of India by the Main Boundary Thrust.
3. Duns and Duars are the longitudinal valleys or alluvial plains found in the Himalayan region.

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

53. In India, National Waterways are operational in which of the following rivers :

1. River Mandovi
2. River Zuari
3. River Narmada
4. River Tapi
5. River Kali

Select the correct answer using the code given below :

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

54. Which of the following islands form the first island chain of the USA's Island chain strategy?

1. Taiwan
2. Andaman and Nicobar
3. Diego Garcia
4. Ryukyu Islands
5. Ternate Islands

Select the correct answer using the code given below :

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

55. Consider the following pairs :

Reservoirs		Rivers
1. Krishnarajasagar	-	Kaveri
2. Tawa	-	Narmada
3. Jawahar Sagar	-	Yamuna
4. Bargi	-	Bhagirathi

How many pairs given above is/are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

56. Consider the following statements with reference to roadways and railways in India :

1. Generally, the states with the highest density of roads also have the highest railways in India.
2. In the new numbering system of National Highways, all north-south oriented highways will have even numbers, and all east-west oriented highways will have an odd numbers.
3. The railway zones of India are demarcated such that they are in concurrence with the state boundaries.

Which of the statements given above is/are correct ?

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

57. Consider the following statements with reference to the Geological formation of India :

1. Peninsular India was a part of the old landmass since the formation of the Earth's crust.
2. The Indo-Gangetic plain came into existence during the Tertiary Period.
3. The Himalayas started to develop during the Pleistocene period.

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

58. Consider the following pairs :

Tree		Forest
1. Gurjan	-	Evergreen forest
2. Mahua	-	Monsoon forest
3. Deodar	-	Himalayan forest

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

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

59. Consider the following pairs :

Waterfalls	States
1. Barehipani	- Odisha
2. Vantawung	- Meghalaya
3. Dudh sagar	- Goa
4. Bundla	- Himachal Pradesh

How many pairs given above is/are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

60. Consider the following statements with reference to Electricity generation in India :

1. Coal-based thermal power plants generate almost three-fourths of India's Electricity.
2. The Installed power generation capacity of the Private Sector is greater than the central sector.
3. The amount of energy generated from Non-Fossil Fuels is topped by Solar energy, followed by wind energy.

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

61. Consider the following pairs :

Vegetation	Region
1. Tropical evergreen	- Western Ghats
2. Temperate evergreen	- Central parts of India
3. Thorny	- Rajasthan desert
4. Dry Deciduous	- Northeast India

How many pairs given above is/are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

62. Consider the following statements :

1. The sale and distribution of sugar are regulated under the Essential Commodities Act of 1955.
2. The export of sugar was carried out through the Agricultural and Processed Food Products Export Development Authority.

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

63. Consider the following statements :

1. These soils are locally termed as reh, kallar and usar.
2. This soil is generally infertile and unfit for agricultural use.
3. These soils are mostly found in areas with a dry climate and poor drainage.

Which one of the following Soils best applies to the above statements ?

- (a) Arid Soils
- (b) Saline Soils
- (c) Peaty Soils
- (d) Laterite soils

64. Which among the following types of coal deposits took the longest time to form ?

- (a) Peat
- (b) Lignite
- (c) Bituminous
- (d) Anthracite

65. Which of the following are the east-flowing rivers between Mahanadi and Pennar ?

1. Rushikulya
2. Musi
3. Vamsadhara
4. Manneru
5. Sharavathi
6. Kandleru
7. Tandava

Select the correct answer from the codes given below :

- (a) 1, 2, 4 and 6 only
- (b) 2, 3, 5 and 7 only
- (c) 1, 4, 5 and 6 only
- (d) 1, 2, 3, 4 and 7 only

66. Which one of the following statements best reflects the term “AlphaFold” sometimes seen in the news recently ?

- (a) It is a hypothetical planet that is said to be 10 times the size of the Earth.
- (b) It is an Artificial intelligence based protein structure prediction tool.
- (c) It is the first space-based solar telescope in China.
- (d) It is a new variant of coronavirus found in Russian bats.

67. Consider the following statements with reference to the Karewa formations :

1. They are the lacustrine deposits of sand, clay, loam, silt and boulders.
2. The Kashmir Himalayas are famous for Karewa formations.
3. They are useful for the cultivation of Saffron, Almond and Walnut.

Which of the statements given above is/are correct ?

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

68. Consider the following statements :

1. They constitute 3rd in India's livestock population.
2. They are the leading contributors to the total milk production in India.
3. Murrah is an indigenous breed of this livestock.

Which one of the following livestock best applies to the above statements ?

- (a) Milch Cattle
- (b) Goat
- (c) Buffalo
- (d) Donkey

69. The Production-linked incentive scheme is implemented for which of the following renewable energy components ?

1. Solar Photovoltaic Cells
2. Wind Turbine
3. Solar Heaters
4. Small Hydro Power Turbines

Select the correct answer using the code given

below :

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

70. Consider the following statements with reference to the oil and natural gas resources of India :

1. The sedimentary basins of India are formed only in the regions where land meets the sea.
2. Among India's 26 sedimentary basins, only 8 basins have been opened for oil production.
3. The largest hydrocarbon-producing basin in terms of area is also the largest in India in terms of oil and natural gas production.

Which of the statements given above is/are correct ?

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

71. Consider the following pairs :

National Parks

Rare animal

species

- | | |
|------------------|------------------------|
| 1. Kanha | - Sangai Deer |
| 2. Silent Valley | - Lion-Tailed Macaques |
| 3. Gir | - Asiatic lion |
| 4. Dachigam | - Hangul |

How many pairs given above are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

72. Consider the following statements with reference to the Tropical cyclone in India :

1. The eastern coast of India is more prone to cyclones than the western Coast of India.
2. The cyclone, with its whole system, moves forward from east to west in general.
3. In India, most cyclones occur only in the pre-monsoon season.

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

73. Consider the following statements with reference to the recent National Family and Health Survey :

1. As of 2022, more than three fourth of Indian states have attained the replacement total fertility rate.
2. Gujarat and Maharashtra have the highest percentage of wasted children in India.
3. The Gangetic plain states usually have high incidences of stunting, underweight and under-5 mortality.

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

74. Consider the following pairs :

River		Tributary
1. Godavari	-	Pranhita
2. Narmada	-	Kundi
3. Mahanadi	-	Moyar
4. Tapi	-	Orsang

How many pairs given above are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

75. Consider the following raw materials :

1. Latex
2. Lac
3. Willow
4. Jute
5. Silk

Which among the above raw materials is/are a plant derivative ?

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

76. Consider the following statements :

1. Bhor Ghat joins Nashik with Mumbai
2. Shencottah Pass joins Kottayam with Madurai
3. Haldighat joins Rajsamand and Udaipur
4. Thal Ghat joins Mumbai with Pune

How many statements given above is/are correct ?

- (a) Only one statement
- (b) Only two statements
- (c) Only three statements
- (d) All four statements

77. A state in India has the following characteristics :

1. It is bounded by independent countries on three sides.
2. In this state, Sun appears first in India.
3. The Mountainous terrain is divided into valleys by rivers flowing north to south.

Which one of the following states has all of the above characteristics ?

- (a) Assam
- (b) Sikkim
- (c) Tripura
- (d) Arunachal Pradesh

78. Consider the following statements with reference to Transportation in India :

1. The number of International Airports are higher than the State Government/Private owned Airports in India.
2. More than three fourth of the passenger traffic in India occurs through railways.
3. Almost two third of railway lines in India have been electrified till date.

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

79. Had there been no Himalayas in the Indian subcontinent,

1. There will be no splitting of the westerly jet streams
2. More region of northern India would have been a desert
3. The cold Siberian air masses will enter into India
4. There will be no interception in the summer monsoon coming from the Bay of Bengal and the Arabian Sea

How many of the above statements are correct based on the given scenario ?

- (a) Only one statement
- (b) Only two statements
- (c) Only three statements
- (d) All four statements

80. In the second stage of the nuclear power programme, the thorium mat is used in the nuclear reactors. The fuel rods in such reactors are fabricated with Molybdenum and Zircon. In this context, which of the following states provides a one-stop destination for mining all the 3 minerals ?

- (a) Haryana
- (b) Rajasthan
- (c) Arunachal Pradesh
- (d) Tamil Nadu

81. Consider the following statements with reference to the 'Langya Virus', which has sometimes been seen in the news recently :

1. It is a new zoonotic virus that has infected people in Sri Lanka
2. As of now, there are no licensed drugs meant for humans.
3. The virus transfers easily between humans

Which of the statements given above is/are correct ?

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

82. Consider the following statements :

1. In the winter season, the upper air westerly jet streams are bifurcated into two branches over the Indian subcontinent.
2. The strength of the westerly jet stream contributes to the intensification of high pressure formed over the southern Indian Ocean during summer.

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

83. Consider the following pairs :

Characteristics of Forest soil	Region
1. High content of nitrogen and organic matter	- Meghalaya
2. Podzols	- North Western Himalaya
3. Brown soils and laterites	- Western Ghats
4. Well-decomposed humus	- Darjeeling

How many pairs given above is/are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

84. Consider the following statements with reference to the Pharmacopoeia Commission for Indian Medicine :

1. It is a subordinate office under the Ministry of Health and Family Welfare
2. It is engaged in the development of Pharmacopoeial Standards for Ayurvedic, Unani, Siddha and Homoeopathic drugs
3. It acts as Central Drug Testing cum Appellate Laboratory for Indian systems of Medicine and Homoeopathy

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

85. Consider the following statements with reference to the Alluvial soils in India

1. Khadar soils are the new alluvial deposits which are lighter in colour and have a sandy texture
2. Khadar is deposited near the riverbanks while Bhangar found away from the banks of the river on higher interfluvial zones
3. At the foothills of the Himalayas, bhabhar soils are found, which are characterized by pebbles and swamps

Which of the statements given above is/are correct ?

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

86. Consider the following statements with reference to tribes of India :

1. More than half of the tribal population of India is living in multidimensional poverty.
2. Some tribes in India still follow the practice of polyandry and polygyny.
3. The state boundaries are always demarcated such that the domain of any particular tribe is located in a single state.

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

87. In general, a sustained Positive value of Southern Oscillation indicates :

1. Dry weather conditions in Southeast Asia
2. A warm Peru Current
3. Good Southwest Monsoon
4. A rise in depth of thermo-cline in the western half of the Pacific Ocean

Select the correct answer using the code given below ?

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

88. Which one of the following lakes of Europe has shrunk close to record lows due to drought recently ?

- (a) Lake Bled
- (b) Lake Lucerne
- (c) Lake Geneva
- (d) Lake Garda

89. Consider the following statements with reference to the Red Soils in India :

1. The texture of the soil varies from sand to clay and loam
2. In general, these soils are rich in lime, phosphate, magnesia, nitrogen, humus, and potash.
3. In Uplands, the soil is coarse and infertile, while in Plains, the soil is fine and fertile.

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

90. Consider the following statements with reference to the variability of rainfall in India :

1. The highest rainfall occurs along the Konkan and Malabar coasts
2. The highest variability is found in the areas where the average annual rainfall is the highest
3. The lowest rainfall is recorded in eastern Rajasthan, the north-eastern parts of Gujarat, and Ladakh

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

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

91. With reference to the climate of India, the retreat of Southwest Monsoon winds takes place due to :

- (a) The apparent shift of the sun from the equator towards the Tropic of cancer
- (b) The weakening of low-pressure area over the northwestern parts of India
- (c) The origin of severe cyclonic storms in the Bay of Bengal
- (d) The shifting of the high-pressure area to the south Indian ocean

92. Consider the following statements with reference to the postal system of India :

- 1. Apart from postal service, the post office network in India also provides banking and insurance services to its customers.
- 2. No states in India are bifurcated by the postal zones of India
- 3. The number of people employed by India Post is more than that employed by the Indian Armed Forces.

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

93. Consider the following pairs :

Soil Type	Crops
1. Laterite Soil	- Cashew nuts
2. Sub-montane Soil	- Rice
3. Red Soil	- Ground nut
4. Black Soil	- Cotton

How many pairs given above is/are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

94. Consider the following statements :

- 1. Bamboos are fast-growing perennial plants
- 2. In India, bamboo is found naturally almost throughout the country except in the Kashmir region
- 3. Odisha and West Bengal account for more than 70% of the bamboo resources of the country
- 4. According to the India State of Forest Report 2021, Madhya Pradesh has shown the highest decrease in the bamboo-bearing area

How many statements given above is/are correct ?

- (a) Only one statement
- (b) Only two statements
- (c) Only three statements
- (d) All four statements

95. Consider the following statements with reference to the 'School Innovation Council', which has sometimes been seen in the news recently :

- 1. It is a council of teachers, students, and experts from industry and academia
- 2. It has been introduced to all schools in all the states except Rajasthan
- 3. It is an initiative taken by NITI Aayog

Which of the statements given above is/are correct?

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

96. Which among the following are zoonotic diseases ?

1. Monkeypox
2. Lumpy skin disease
3. Rabies
4. Kyasanur Forest disease

Select the correct answer using the code given below :

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

97. Consider the following statements with reference to the cold weather season in India :

1. It is characterized by land-bearing winds, dry and stable air, and clear skies.
2. There develops a low-pressure area over north India.
3. In Peninsular India, the general direction of the wind is from west to east.

Which of the statements given above is/are correct ?

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

98. Consider the following pairs :

Hydroelectric power project		Hosting River
1. Maithon Dam	-	River Barakar
2. Jawahar Sagar Dam	-	River Chambal
3. Nagarjuna Sagar Dam	-	River Krishna
4. Hirakud Dam	-	River Mahanadi

How many pairs given above is/are correctly matched ?

- (a) One pair only
- (b) Two pairs only
- (c) Three pairs only
- (d) All four pairs

99. Consider the following statements :

1. In India, Northeast Trade winds are essentially sea-bearing winds.
2. In India, Southwest Trade winds are essentially land-bearing winds.

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

100. Consider the following statements with reference to the urban rapid transport systems in India :

1. Urban rapid transit is usually established to provide connectivity between the suburban areas and the city.
2. At present, only state capitals in India have an operational urban rapid transport system.
3. India has more cities with an urban rapid transit system than any other South Asian Country.

Which of the statements given above is/are correct ?

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