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Test Booklet Series

TEST BOOKLET

C

GENERAL STUDIES (P) 2024 – Test – 4144

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 **1/3rd 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. Consider the following statements with respect to the Green Hydrogen Mission of India:

1. It aims to make India a net exporter of green hydrogen.
2. It targets to build capabilities to produce at least 5 million metric tonnes (MMT) of green hydrogen per annum by 2030.
3. NITI Aayog will be responsible for the overall coordination and implementation of the mission.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

2. With reference to the carbon credit, consider the following statements:

1. One carbon credit is equal to one metric ton of carbon dioxide, or in some markets, carbon dioxide equivalent gases.
2. It is based on the cap-and-trade model.

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

3. Which of the following are the sources of indoor air pollution?

1. Phthalate esters
2. Ozone
3. Radon
4. Animal dander

Select the correct answer using the code given below.

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

4. Consider the following statements regarding the Water (Prevention and Control of Pollution) Act, 1974:

1. Under this act, a cess is levied and collected on water consumed by persons operating and carrying on certain types of industrial activities.
2. In 2022, the government amended rules under the act to add regulations on the use of water purification systems.

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

5. Consider the following:

1. Biodiversity loss
2. International waters
3. Chemicals and waste
4. Climate change
5. Renewable energy

How many of the above are included in the Five Focal Areas of the World Environment Facility (WEF)?

- (a) Only two
- (b) Only three
- (c) Only four
- (d) All five

6. Consider the following statements regarding nuclear energy in India:

1. It contributes less than 1% of the total electricity generation in the country.
2. India has over 50 nuclear reactors across the country which produces around 10,000 MW of nuclear power.
3. Over two-third of the reactors in India are Pressurised Heavy Water Reactors.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

7. Hydrodynamic trapping, solubility trapping and mineral carbonation are associated with:
- In situ bioremediation
 - Carbon Sequestration
 - Decomposition of solid waste
 - Shale gas extraction

8. Which of the following are the components of the Global Solar Facility under International Solar Alliance (ISA)?

- Solar Payment Guarantee Fund
- Solar Insurance Fund
- Global Energy Alliance for People and Planet
- Scaling Solar Applications for Agriculture Use

Select the correct answer using the code given below.

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

9. Consider the following statements regarding Resilient and Inclusive Supply-chain Enhancement (RISE):

- It is an initiative of the Organisation for Economic Co-operation and Development.
- It will help emerging markets and developing countries (EMDCs) increase the manufacturing of clean-energy products.

Which of the statements given above is/are correct?

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

10. Arrange the following gases according to their global warming potential in ascending order.

- Nitrous Oxide
- Methane
- Sulphur hexafluoride
- Carbon dioxide

Select the correct answer using the code given below.

- 2-4-3-1
- 4-1-2-3
- 4-2-1-3
- 2-1-4-3

11. Consider the following statements regarding biochar:

- It is a carbon-enriched biomaterial generated through incineration.
- It enriches the soil and prevents it from leaching pesticides.
- It is also an excellent carbon sink and can be used for carbon sequestration.

Which of the statements given above is/are correct?

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

12. Which of the following greenhouse gases have the highest atmospheric lifetime in years?

- Methane
- Nitrous Oxide
- Hydrofluorocarbons
- Chlorofluorocarbons

13. Carbon trading as a concept was initially introduced under which of the following international agreements/summits?
- (a) Kyoto Protocol, 1997
 - (b) Montreal Protocol, 1987
 - (c) Earth Summit, 1992
 - (d) Paris Agreement, 2015
14. Consider the following statements with respect to the Inclusive Conservation Initiative:
1. It is an initiative to support the leadership of indigenous peoples and local communities in stewarding land, water and natural resources.
 2. It will provide direct financial support to indigenous and locally-led initiatives in Africa, Central and South America, Asia and the Pacific region.
 3. It is a joint initiative of the United Nations and Conservation International.
- How many of the statements given above are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None
15. Consider the following pairs:
- | GI Tag Product | State |
|-----------------------|---------------------|
| 1. Udangudi | : Karnataka |
| Panangarupatti | |
| 2. Tangsa Textile | : Sikkim |
| 3. Khamti Rice | : Arunachal Pradesh |
- How many of the pairs given above are correctly matched?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None
16. In the context of the environment, 'Carbon Leakage' is best described as:
- (a) It is the expenses incurred by the nation for carbon emission trading.
 - (b) It is an increase in emissions outside a region as a direct result of the policy measures to cap emissions in the region.
 - (c) It is the excess of carbon emissions by a nation that exceeds prescribed limit even after acquiring carbon credits from other nations.
 - (d) It is a tax evasion mechanism used by emitters to avoid paying carbon tax for greenhouse gas emissions.
17. Consider the following statements with respect to 'Jaivik Pahal' campaign:
1. It is the campaign launched by the automobile industry in India.
 2. It promotes biofuels produced from renewable biological materials.
- 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. In the context of space science, consider the following statements regarding neutrinos:
1. They never interact with any substance.
 2. They are nearly massless.
 3. They do not have any charge.
- How many of the statements given above are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None

19. Consider the following statements regarding the Ramsar Convention of 1971:

1. It is a legally binding intergovernmental treaty that provides the framework for the conservation of wetlands.
2. Lotic water bodies are not covered under the Ramsar Convention.
3. India has the largest network of Ramsar wetlands in Asia.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

20. Consider the following statements:

1. E-waste is categorized as hazardous waste under the Basel Convention, 1989.
2. India is the world's largest e-waste producer as per the Global E-waste Monitor 2020.

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. Recently, which of the following villages has been selected as Best Tourism Village by the United Nations World Tourism Organization (UNWTO)?

- (a) Dhordo
- (b) Mawlynnong
- (c) Malana
- (d) Odanthurai

22. With reference to the global climate finance regime, consider the following statements regarding the Least Developed Countries Fund (LDCF):

1. It was created by the Marrakesh Accords in the 17th conference of parties in 2011.
2. It aims to address the needs of the 51 LDCs which are particularly vulnerable to the adverse impacts of climate change.
3. It supports the preparation and implementation of the National Adaptation Programmes of Action.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

23. The India GHG Program is:

- (a) an initiative by the Ministry of Science and Technology to develop climate change mitigation technologies.
- (b) an initiative by the Ministry of Environment, Forest and Climate Change to reduce greenhouse gas emissions.
- (c) an industry-led voluntary framework to measure and manage greenhouse gas emissions.
- (d) None of the above.

24. In the context of Nanophotonic Electron Accelerator (NEA), recently seen in the news, consider the following statements:

1. It is the world's smallest particle accelerator which has been turned on for the first time.
2. One of the key goals of developing NEA is to exploit the energy released by the use of miniature particle accelerators for medicinal purposes.
3. The NEA uses light beams focused at the vacuum tube's pillars to magnify energy, resulting in a very low energy field.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

25. Consider the following statements with respect to E-waste Rules (Management), 2022:

1. These rules do not apply to waste batteries and radioactive wastes.
2. It defines an 'e-retailer' as a company which deals in e-waste online.
3. It defines 'orphaned products' as those produced more than five years ago by a branded company.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

26. With reference to 'Zero Budget Natural Farming', a term often seen in news, which of the following statements are correct?

1. It is a method of farming done without using any credit, and without spending any money on purchased inputs.
2. It aims to eliminate the use of chemical pesticides.
3. It is not practiced in India.

Select the correct answer using the code given below.

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

27. The Worldwide Governance Indicators (WGI) is often seen in the news. It is an initiative of

- (a) Inter-Parliamentary Union
- (b) Organisation for Economic Co-operation and Development
- (c) World Bank
- (d) United Nations

28. Consider the following statements regarding the United Nations Environment Assembly (UNEA):

1. It was founded as a result of the UN Conference on the Human Environment (Stockholm Conference) in 1972.
2. It is the world's highest-level decision-making body with near-universal membership for matters related to the environment.
3. The session of assembly is conducted every year at the UNEP headquarters in Nairobi, Kenya.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

29. Consider the following sources of energy:

1. Wind energy
2. Nuclear energy
3. Solar energy
4. Biomass energy
5. Geothermal energy

How many of the above are included in the renewable energy sector in India?

- (a) Only two
- (b) Only three
- (c) Only four
- (d) All five

30. Consider the following statements with respect to the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA):

1. It is the first global market-based measure for any sector that offers a harmonized way to reduce emissions from international aviation.
2. Unlike the pilot phase, the participation of states is mandatory in its final phase.

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

31. Consider the following statement with respect to ozone-depleting substances:

1. Montreal Protocol and Kigali Amendment, both address the issues related to ozone-depleting substances.
2. The Kigali amendment aims to reduce HFCs by 80-85 per cent by the late 2040s.
3. India has successfully met the phase-out targets of all the Ozone Depleting Substances as per the Montreal Protocol Schedule.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

32. With reference to the 'Ethanol Blending programme (EBP) in India', consider the following statements:

1. India has advanced the target of 20 percent ethanol blending in petrol from 2030 to 2025-26.
2. Department of Food and Public Distribution (DFPD) is the nodal department for the promotion of fuel-grade ethanol-producing distilleries in the country.

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. Consider the following:

1. Increase in Research Octane Number
2. Higher flame speed
3. Lesser fuel requirement for the same engine output

How many of the above are the benefits of ethanol blending?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

34. Which of the following are a part of the biological treatment of wastewater containing hazardous chemicals?

1. Neutralisation
2. Composting
3. Conditioning
4. Digestion
5. Lagooning

Select the correct answer using the code given below.

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

35. Consider the following National Missions being implemented in India:

1. National Mission on Natural Farming (NMNF)
 2. National Mission on Strategic Knowledge for Climate Change (NMSKCC)
 3. National Mission For Enhanced Energy Efficiency
 4. National Mission on Sustainable Habitat
- How many of the above are **not** included in India's National Action Plan On Climate Change (NAPCC)?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) None

36. Consider the following statements regarding the Global Framework for Climate Services (GFCS):

1. It is an initiative of the United Nations Framework Convention on Climate Change.
2. It was established in the year 2004 after the Indian Ocean Tsunami.

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

37. Consider the following statements regarding Gambusia Fish:

1. It migrates from the ocean to lay eggs in freshwater.
2. It is critically endangered.
3. They are known for their symbiotic relationship with the Olive Ridley Turtle.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

38. Consider the following statements regarding the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES):

1. It is a non-binding international agreement between governments to regulate international trade in wild animals and plants.
2. Its secretariat is administered by the United Nations Environment Programme (UNEP).

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

39. Consider the following statements regarding the International Whaling Commission (IWC):

1. It adopted a global moratorium on commercial whaling due to the overexploitation of whale stocks in 1986.
2. Aboriginal subsistence whaling is not regulated by the IWC.

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

40. Which of the following countries is the part of recently proposed IPMDA Initiative?

1. Japan
2. Russia
3. China
4. U.S.A.
5. India
6. UK
7. South Korea

Select the correct answer using the code given below.

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

- 41.** Consider the following statements regarding Global Footprint Network:
1. It was established by the World Summit on Sustainable Development in 2002.
 2. It is responsible for hosting and calculating Earth Overshoot Day.
- 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
- 42.** Which of the following statements is correct regarding National River Conservation Plan (NRCP) ?
- (a) It is under the Ministry of Water Resources, River Development & Ganga Rejuvenation.
 - (b) National Lake Conservation Programme is a sub-scheme under the National River Conservation Programme.
 - (c) All the states are covered under the National River Conservation Plan.
 - (d) It includes river front development works and construction of low cost sanitation toilets.
- 43.** Consider the following statements regarding the “Loss and Damage Fund”:
1. It aims to provide financial assistance to nations most vulnerable and impacted by the effects of climate change.
 2. It was operationalised at COP-21, UN Climate Change Conference in Paris, France.
- 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

- 44.** Recently, the Prime Minister launched the PM-PVTG scheme on the occasion of Janjatiya Gaurav Divas. In this context, consider the following statements:
1. It aims to bring critical infrastructure to the 75 PVTG communities.
 2. To ensure coordination it aims to appoint one nodal officer for each state.
 3. The Ministry of Rural Development is the nodal ministry for overall policy planning and coordination of programs.
- How many of the statements given above are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None
- 45.** National Air Quality Monitoring Programme (NAMP) determines the status and trends of ambient air quality with respect to which of the following?
1. Carbon Dioxide
 2. Sulphur Dioxide
 3. PM10
 4. Wind speed and direction
 5. Temperature
 6. Oxides of Nitrogen
- Select the correct answer using the code given below.
- (a) 2, 3, 4, 5 and 6 only
 - (b) 1, 3 and 6 only
 - (c) 1, 2, 3, 4, 5 and 6
 - (d) 1, 2 and 6 only
- 46.** The report ‘Global Landscape of Climate Finance 2023’ is released by:
- (a) World Bank
 - (b) Intergovernmental Panel on Climate Change
 - (c) World Economic Forum
 - (d) Climate Policy Initiative

47. Consider the following statements regarding Project Kusha:

1. It is aimed at developing nuclear submarines for India.
2. It is being jointly developed with the help of Israel.

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

48. With reference to the Indian coal, consider the following statements:

1. India has the fifth largest coal reserves and is second in coal production after China.
2. Gondwana coal makes up more than 95 % of the total reserves and 99% of the production of coal in India.
3. It has high ash and sulphur content but low ash fusion temperature thus making India one of the largest importer.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

49. Recently, the World Health Organisation released the Global TB Report 2023. In this context, consider the following statements:

1. Staphylococcus aureus is the primary causative agent of tuberculosis.
2. Tuberculosis is an infectious disease that affects only the lungs.
3. The Mantoux test is used to monitor blood sugar in Tuberculosis patients.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

50. Arrange the following in the descending order of renewable energy potential of India:

1. Solar energy
2. Wind energy
3. Bioenergy
4. Small Hydro

Select the correct answer using the code given below.

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

51. Consider the following statements regarding solar energy sector in India:

1. The current installed solar power capacity in the country is more than 100GW.
2. Ground-mounted solar plants has the largest share followed by roof-top and hybrid projects respectively.

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

52. World Heritage Outlook Report is released by:

- (a) United Nations Educational, Scientific and Cultural Organization (UNESCO)
- (b) Economic and Social Council (ECOSOC) of UN
- (c) International Union for the Conservation of Nature (IUCN)
- (d) United Nations Environment Programme (UNEP)

53. Consider the following statements regarding the Energy Saving Certificates (ESCerts):

1. These are market-based regulatory instruments to reduce energy consumption in energy-intensive industries.
2. ESCerts trading is regulated by the Indian Renewable Energy Development Agency
3. These certificates are issued under the Perform, Trade and Achieve (PAT) scheme.

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

54. On which of the following principles do air pollution control devices work?

1. Gravity separation
2. Cyclonic separation
3. Filtration
4. Wet Scrubbing
5. Electrostatic Precipitation

Select the correct answer using the code given below.

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

55. Consider the following statements regarding the International Tropical Timber Organization:

1. It is a multilateral non-governmental organization for promoting the sustainable management and conservation of tropical forests.
2. Countries from tropical areas with timber trade are only eligible to become members of ITTO.
3. India is one of its producing members.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

56. Consider the following statements, with respect to Graded Response Action Plan:

1. It is a set of measures implemented in Delhi-NCR throughout the year for controlling air pollution.
2. The Commission for Air Quality Management (CAQM), is an autonomous body tasked with improving the air quality in Delhi.
3. It calls for a complete ban on eateries, restaurants and hotels only when the Air Quality Index reaches 450 level.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

57. Consider the following statements regarding the 'Champions of the Earth Award' :
1. It is the United Nations' highest environmental honor.
 2. It recognizes the contributions of individuals as well as organizations.
 3. Recently, this award was given to laureates who are implementing solutions and policies to eliminate plastic pollution.
- How many statements given above are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None
58. Consider the following statements regarding the Annapurna Certificate Programme:
1. It acknowledges restaurants abroad contributing to India's cultural cause through cuisines.
 2. It is an initiative of the Indian Council for Cultural Relations.
- 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. BHARAT TAP initiative and Nirmal Jal Prayas initiative are under:
- (a) Ministry of Jal Shakti.
 - (b) Ministry of Housing and Urban Affairs.
 - (c) Ministry of Environment, Forest and Climate Change.
 - (d) Ministry of Panchayati Raj

60. Consider the following pairs:
- | <i>Generation of Bio-Fuels</i> | <i>Source</i> |
|--------------------------------|---|
| 1. First Generation | : Food sources like sugar, starch or animal fats |
| 2. Second Generation | : Non-food crops like stems, husks and wood chips |
| 3. Third Generation | : From micro-organisms like algae |
| 4. Fourth Generation | : Genetically engineered crops |
- How many pairs given above are correctly matched?
- (a) Only one
 - (b) Only two
 - (c) Only three
 - (d) All four
61. The biennial State of Worlds Forests Report is published by:
- (a) World Environment Facility (WEF)
 - (b) United Nations Forum on Forests (UNFF)
 - (c) World Forest Watch (WFW)
 - (d) The Food and Agriculture Organization (FAO)
62. Consider the following statements with respect to Bharat Stage VI norms:
1. In April 2020 India transitioned from BS V emission norms to BS-VI norms.
 2. Emissions from petrol cars have to decrease more compared to Diesel cars to reach the norms prescribed in BS-VI.
 3. BS-VI-compliant fuel has zero levels of sulphur content.
- Which of the statements given above is/are **not** correct?
- (a) 3 only
 - (b) 1 and 2 only
 - (c) 2 and 3 only
 - (d) 1, 2 and 3

- 63.** Consider the following statements with respect to the short-lived climate pollutants:
1. They remain in the atmosphere for a much shorter period of time than methane but their potential to warm the atmosphere can be many times greater.
 2. They are responsible for up to 45% of current global warming.
 3. Climate & Clean Air Coalition is the only international body working to address this issue.
- How many of the statements given above are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None
- 64.** With reference to the disposal of waste, the term 'Incineration' refers to:
- (a) the process in which sedimented water is subjected to a chemical process to extract potable water.
 - (b) a physico-chemical process for separating suspended and colloidal impurities from liquids.
 - (c) the process in which disinfectants like chlorine or bleaching powder are added to remove impurities in water.
 - (d) the process of burning waste at very high temperatures.
- 65.** Consider the following statements regarding White Phosphorous:
1. It ignites in contact with air.
 2. It is banned by the Convention on Certain Conventional Weapons (CCW).
- Which of the statements given above is/are correct?
- (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

- 66.** The Fagradalsfjall system, recently seen in the news, is associated with?
- (a) Irrigation System
 - (b) Volcanic system
 - (c) System to rehabilitate war victim
 - (d) System to attract honey bees
- 67.** Consider the following statements regarding the National Clean Air Program (NCAP):
1. The NCAP aims to reduce particulate matter (PM) concentrations by 20-30% in cities by 2030.
 2. It is being implemented by the Ministry of Environment, Forest and Climate Change (MoEFCC).
- 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
- 68.** In the context of the economy, consider the following statements regarding Project Mariana:
1. It is an initiative of the World Bank.
 2. It tests cross-border trading and settlement of wholesale central bank digital currencies.
- 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

69. Consider the following statements regarding 'SATAT' scheme:

1. The scheme envisages to target production of 15 MMT (million tons) of compressed biogas by 2023.
2. It aims to encourage entrepreneurs to set up compressed biogas plants, produce and supply CBG to Oil Marketing Companies.
3. The scheme will help in better use of municipal solid waste along with agricultural residue.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

70. Invasive species Specialist Group' (that develops Global Invasive Species Database) belongs to which one of the following organizations?

- (a) The International Union for Conservation of Nature
- (b) The United Nations Environment Programme
- (c) The United Nations World Commission for Environment and Development.
- (d) The World Wide Fund for Nature

71. Consider the following statements regarding the National Organ and Tissue Transplant Organisation (NOTTO):

1. It operates under the Ministry of Science and Technology.
2. It oversees organ procurement but distribution is left to the states.

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

72. Consider the following statements regarding election funding in India:

1. An individual can donate as much as he wants to a political party.
2. A company can donate up to 10% of the average of the preceding three years' profits.
3. There is no legal expenditure limit on expenditure by political parties.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

73. With reference to India's updated Nationally Determined Contribution (NDC), consider the following statements:

1. It aims to reduce emissions intensity of its GDP by 45 percent by 2030, from 2000 as the base year.
2. It aims to achieve 50 percent of its energy capacity from renewable based energy resources by 2030.
3. It targets net zero emissions by 2070.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

- 74.** Consider the following statements regarding Just Energy Transition Partnerships (JETPs):
1. JETPs aim to bridge the gap between developed and developing nations in moving towards clean energy.
 2. The first JETP was announced at the Sharm el-Sheikh Climate Change Conference (COP 27).
 3. South Africa, Bangladesh, and Venezuela are the first three countries to receive funding under a JETP.

Which of the statements given above is/are correct?

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

- 75.** Consider the following statements regarding the Convention on Conservation of Migratory Species (CMS):
1. CMS is the only global intergovernmental organisation established exclusively for the conservation and management of migratory species.
 2. It is an environmental treaty under the aegis of the United Nations Environment Programme.

Which of the statements given above is/are correct?

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

- 76.** In the context of security, 'Prachand' is a/an
- (a) light combat helicopter.
 - (b) inter-continental ballistic missile.
 - (c) nuclear submarine.
 - (d) anti-tank guided missile.

- 77.** In the context of Indian culture, the term Vajra Mushti Kalaga was recently seen in the news. It is a
- (a) Buddhist sect
 - (b) form of wrestling
 - (c) folk dance
 - (d) form of puppetry

- 78.** Which of the following statements correctly describes the 'Non-Attainment Cities' under the National Clean Air Programme (NCAP)?
- (a) Cities that do not participate in attaining National Ambient Air Quality Standards (NAAQS) for a time bound period.
 - (b) Cities identified by the Central Pollution Control Board (CPCB) who have not attained 40% to 50% reduction in particulate matter.
 - (c) Cities that do not meet the National Ambient Air Quality Standards (NAAQS) over a 5-year period for PM₁₀ or N₀₂.
 - (d) None of the above.

- 79.** Which of the following activities could best prevent smog?
1. Fuel up cars during the cooler hours of the day
 2. Use of low-volatile organic compound paints
 3. Use of electric appliances instead of gas powered lawnmowers
 4. Use of public transportation
- Select the correct answer using the code given below.
- (a) 1 only
 - (b) 1 and 3 only
 - (c) 2, 3 and 4 only
 - (d) 1, 2, 3 and 4

80. Recently, millions of people have been internally displaced due to ongoing conflict with the rebel group Mouvement du 23 Mars (M23). To which country does this M23 rebel group belong?

- (a) Democratic Republic of Congo
- (b) Palestine
- (c) Sudan
- (d) Syria

81. Consider the following pairs:

Bio-Medical Waste Bag	Used for
------------------------------	-----------------

- | | | |
|-----------|---|-------------------------------|
| 1. Red | : | Discarded or Expired medicine |
| 2. Yellow | : | Soiled Waste |
| 3. Blue | : | Glassware |
| 4. White | : | Waste sharps including metal |

How many pairs given above are correctly matched?

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

82. Consider the following statements regarding the Atmospheric Waves Experiment :

1. It is aimed at studying the interactions between terrestrial and space weather.
2. It is an initiative of the World Meteorological Organization.
3. It will be launched and mounted on the exterior of the International Space Station (ISS).

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

83. Consider the following statements with respect to Corporate Average Fuel Efficiency/Economy (CAFE) regulations:

1. They are primarily designed for oil companies to increase fuel efficiency.
2. CAFE is the weighted average of emissions and fuel economy for the entire fleet sold in the country.
3. They were first notified in 2017 by the Union Ministry of Petroleum and Natural Gas.
4. The existing limit for average CO₂ emissions happens to be 100g/km.

How many of the statements given above are correct?

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

84. Consider the following statements with respect to the Central Pollution Control Board:

1. It can prohibit the use of any fuel or appliance that may cause air pollution.
2. It can inspect any control equipment, industrial plant or manufacturing process for the prevention of air pollution.
3. It may establish or recognize a laboratory for performing its functions under the Air (Prevention and Control of Pollution) Act, 1981.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

85. Consider the following statements regarding Global Methane Pledge (GMP):

1. Its aim is to collectively reduce methane emissions by at least 30% below 2020 levels by 2030.
2. It was launched at COP-26 of United Nations Climate Change Conference (UNFCCC) in Glasgow, Scotland.
3. India did not sign it because of its concerns over the trade, farm and livestock sector in the economy.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

86. Consider the following:

1. Extension of existing Airports
2. Ports and Harbour dealing in Fish
3. Road Highway Toll Plazas

How many of the above do **not** require public consultation under Environment Impact Assessment rules?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

87. Which of the following institutions publishes the Global Energy Transition Index?

- (a) International Energy Agency
- (b) World Economic Forum
- (c) Cornell University, USA
- (d) The Energy and Resources Institute, India

88. Which of the following are the by-products of coal based power plants in India?

1. Oxides of aluminium and calcium
2. Arsenic
3. Boron
4. Chromium
5. Lead

Select the correct answer using the code given below.

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

89. Consider the following pairs:

<i>Alternative fuel</i>	<i>Produced from</i>
1. Renewable Gasoline	: Cellulose material
2. Renewable Diesel	: Fats and oil
3. Sustainable Aviation Fuel	: Woody biomass

How many pairs given above are correctly matched?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

90. Consider the following statements with respect to the Rotterdam Convention:

1. It is a multilateral treaty to promote shared responsibilities in relation to the importation of hazardous chemicals.
2. The movements of hazardous chemicals listed in Annex III are subject to the Prior Informed Consent procedure.
3. Exports are only allowed if the State of import has consented to the future import of the specific chemical.
4. It also covers chemicals imported for the purpose of research and analysis.

How many of the statements given above are correct?

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

91. 'Climate Neutral Now Initiative', an initiative of UNFCCC is:

- (a) a certification scheme for non-parties to the convention.
- (b) an initiative to act now in order to achieve a climate-neutral world by 2030.
- (c) a certification scheme based on the completion of nationally determined contributions.
- (d) an initiative to promote the voluntary use of carbon market mechanisms.

92. Consider the following statements with respect to Chemical Oxygen Demand:

- 1. COD determines the amount of oxygen required for the chemical oxidation of an organic matter.
- 2. It helps differentiate between biologically oxidizable and biologically inert material.
- 3. It helps determine the efficiency of treatment plants and pollution loads.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

93. The Palermo Convention recently seen in the news deals with

- (a) transnational organized crime.
- (b) sea level rise.
- (c) land degradation
- (d) global Financial Architecture.

94. In the context of the electoral process in India, consider the following statements regarding the term "ENCORE" :

- 1. It is software for complete candidate and election management for returning officers.
- 2. It was developed by the National Technical Research Organisation.

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

95. Consider the following statements regarding ocean thermal energy in India:

- 1. Ocean thermal energy is produced by harnessing the temperature difference between cold current and warm current.
- 2. India's first ocean thermal energy plant is being implemented in Kavaratti in Lakshadweep.
- 3. The National Institute of Ocean Technology (NIOT) is the implementing agency for the plant.

How many statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

96. Consider the following countries:

- 1. Russia
- 2. Malaysia
- 3. Cambodia
- 4. Indonesia

How many of the above countries are members of Global Tiger Forum?

- (a) Only one
- (b) Only two
- (c) All four
- (d) None

97. Consider the following statements regarding India's Carbon Credit Trading Scheme, 2023:

1. Under the scheme, MoEFCC will issue carbon credit certificates to the entities that surpass the assigned targets.
2. The Central Electricity Regulatory Commission (CERC) will regulate the trading of carbon credits under the 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

98. Cocoyoc declaration is associated with

- (a) sustainable development
- (b) ozone layer depletion
- (c) wildlife conservation
- (d) nuclear non-proliferation

99. Consider the following pairs:

<i>Convention</i>	<i>Related Subject</i>
1. Basel Convention	: Transboundary Movements of Hazardous Wastes and their Disposal.
2. Hong Kong Convention	: Safe and Environmentally Sound Recycling of Ships.
3. Stockhom Convention	: Persistent Organic Pollutants

How many pairs given above are correctly matched?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

100. Climate Smart Agriculture aims to:

1. Adapting and building resilience of crops and livestock to climate change
2. Sustainably increasing agricultural productivity
3. Reducing greenhouse gas emissions

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

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