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Test Booklet Series

TEST BOOKLET

C

GENERAL STUDIES (P) 2024 – Test – 4133

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. With reference to the management of the Solid Waste, consider the following statements:

1. Composting is the process of degrading decomposable solid waste in a properly dug pit.
2. Land filling is the process of dumping wastes or other substances in low land areas and covering the same with soil.
3. In incineration, the dried solid waste is safely burnt in closed compartments with proper provision of treatment of harmful gases.

How many of the above statements are correct?

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

2. Consider the following statements about acid rain:

1. It occurs only in tropical areas.
2. It is caused by a reaction of oxides of sulphur and nitrogen with water.
3. One of the reasons for the plaque on the Taj Mahal is the acid rain in the region.

How many of the above statements are *not* correct?

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

3. Consider the following statements with respect to the procedure for divorce under the Hindu Marriage Act, 1955:

1. It lays down the law for divorce which applies to Hindus only.
2. It is mandatory to give six-month time to the parties time to withdraw their plea.
3. A petition for divorce by mutual consent can be filed only a year after the marriage.

Which of the statements given above is correct?

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

4. Business Ready (B-Ready) Project which is recently seen in news is an initiative of

- (a) World Trade Organisation (WTO)
- (b) World Bank
- (c) United Nations Conference on Trade and Development (UNCTAD)
- (d) The Organization for Economic Cooperation and Development (OECD)

5. Consider the following statements with respect to Kambala:

1. It is a traditional buffalo race in paddy fields filled with slush and mud.
2. It takes place mainly in the Mysore region of Karnataka.

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

6. Consider the following statements regarding nitrogen pollution:
1. Its contamination causes blue baby' syndrome.
 2. Excessive use of nitrogen fertilizers contributes towards nitrogen pollution.
 3. Runoff of nitrogen from fields to water bodies causes eutrophication.
- How many of the above statements are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None
7. Which of the following statements best describes the term bioremediation?
- (a) It is an increase in concentration of a substance within a trophic level in certain tissues of organisms' bodies.
 - (b) It is the application of biotic agents like microorganisms in the correction and recovery of environmental damage.
 - (c) It is an increase in concentration of a substance in the bodies of consumers as one moves up the food chain.
 - (d) It is the practice of commercial exploitation of biochemicals or genetic materials which occur naturally.
8. Solid Waste Management Rules 2016 and E-Waste (Management) Rule 2016 were notified under which of the following Acts?
- (a) Air (Prevention and Control of Pollution) Act, 1981
 - (b) Environment (Protection) Act, 1986
 - (c) Biological Diversity Act, 2002
 - (d) Wild Life (Protection) Act, 1972
9. Recently, Article 299 of the Indian constitution was seen in the news. It is related to
- (a) contracts made in the exercise of the executive power of the Union or of a State.
 - (b) official languages of the Union and states.
 - (c) seat of Supreme Court in India.
 - (d) setting up of Union Public Commission.
10. In the context of global efforts for the protection of the environment, which of the following happened earliest?
- (a) Release of Brundtland Report titled 'Our Common Future'
 - (b) United Nations Conference on Environment and Development
 - (c) United Nations Conference on Human Environment
 - (d) Adoption of Kyoto Protocol
11. Consider the following statements:
1. Anaerobic decomposition occurs in the absence of oxygen and a lot of energy is produced in this process.
 2. Anaerobic decomposition kills seeds of weeds and germs present in the waste.
- 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 the National Automated Fingerprint Identification System (NAFIS):

1. It is a web-based application that serves as a central repository of criminal fingerprints.
2. It assigns a unique 10-digit National Fingerprint Number to each person arrested for a crime.
3. It is managed by the Crime and Criminal Tracking Network and Systems.

How many of the above statements are correct?

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

13. The species dodo, quagga, thylacine and Steller's Sea Cow are

- (a) invasive species
- (b) endemic to Africa
- (c) marine mammals
- (d) extinct species

14. Arrange the following biodiversity conservation efforts in India in chronological order from earliest to latest.

1. Project Elephant
2. Project Snow Leopard
3. Project Hangul
4. The Asiatic Lion Reintroduction Project

Select the correct answer using the code given below.

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

15. Which of the following harmful materials is/are found in e-waste?

1. Lead
2. Cadmium
3. Chromium

Select the correct answer using the code given below.

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

16. Consider the following statements with respect to the eutrophication of lakes:

1. It is a manmade process and does not occur naturally.
2. The prime contaminants for eutrophication are nitrates and phosphates.

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. Consider the following statements:

1. As compared to wildlife sanctuaries national parks are given a greater degree of protection, with human activity greatly restricted.
2. Wildlife sanctuaries do not have fixed boundaries whereas the boundaries of National Parks are well marked.
3. Unlike wildlife sanctuaries, national parks can be notified only by the Central Government.

How many of the above statements are correct?

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

18. Consider the following statements:
Statement-I: Termites are counted among natural sources of methane like wetlands, wild animals, livestock and geological features like volcanoes.

Statement-II: Methanogenic microorganisms that live in the gut of termites break down the cellulose entering the body and release methane.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I
- (b) Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I
- (c) Statement-I is correct but Statement-II is incorrect
- (d) Statement-I is incorrect but Statement-II is correct

19. Consider the following statements regarding ionizing radiations:

1. They include long wavelength ultraviolet radiations (UV), X-rays, and gamma rays.
2. Electrically charged particles produced in nuclear processes can knock electrons out of atoms or molecules, producing ions.
3. Gamma rays passing through a cell can ionize water molecules near the DNA, potentially causing DNA to break and damage living tissues.

How many of the above statements are *not* correct?

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

20. With reference to ecological succession, consider the following statements:

1. Ecological succession is defined as the process in which one generation of a species replaces another without allowing other species to grow.
2. Primary succession takes place in areas that are newly exposed and essentially lifeless.

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 regarding First Loss Default Guarantee (FLDG), which is recently seen in the news:

1. It is contractual arrangement between banks, non-banking finance companies and lending service providers (LSP) whereby the LSPs guarantees to compensate the banks.
2. Losses only to a certain threshold are covered under this arrangement.
3. The LSP-providing default-loss-guarantee must be incorporated as a company under the Companies Act, 2013.

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

- 22.** Consider the following statements:
1. Quantum physics is the study of matter and energy at the most fundamental level and it aims to uncover the properties and behaviors of the very building blocks of nature.
 2. Quantum effects only manifest at very small length and mass scales, or when temperatures approach absolute zero.
- 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:
- Statement-I: Most Herbicides are toxic to mammals.
- Statement-II: Herbicides become concentrated in the food web.
- Which one of the following is correct in respect of the above statements?
- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
 - (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
 - (c) Statement-I is correct but Statement-II is incorrect.
 - (d) Statement-I is incorrect but Statement-II is correct.
- 24.** Which of the following are the possible impacts of ozone layer depletion?
1. Delay in plant formation and timing of development
 2. Increase in tropospheric ozone
 3. Relative cooling of the troposphere
 4. Increased incidence of cataracts in humans
- Select the correct answer using the code given below.
- (a) 1 and 2 only
 - (b) 1, 3 and 4 only
 - (c) 3 and 4 only
 - (d) 1, 2, 3 and 4
- 25.** A zone of gradual but continuous change from one ecosystem to another when there is no sharp boundary between the two in terms of species composition, is best described as a/an
- (a) habitat
 - (b) niche
 - (c) ecocline
 - (d) biome
- 26.** Which of the following criteria are used to identify biodiversity hotspots?
1. Species richness
 2. Presence of invasive species
 3. High endemism
 4. Threat perception
- Select the correct answer using the code given below.
- (a) 1 and 2 only
 - (b) 2 and 4 only
 - (c) 1, 3 and 4 only
 - (d) 1, 2, 3 and 4
- 27.** Consider the following statements about Ozone:
1. It can only be formed naturally in the atmosphere.
 2. In the stratosphere, it forms a shield protecting us from the UV radiation of the sun.
 3. Ozone is not found in the troposphere.
- How many of the above statements are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None

28. The Global Green House Gas Watch, which is recently seen in news is an initiative of
- World Metrological Organisation (WMO)
 - National Oceanic and Atmospheric Administration (NOAA)
 - United Nations Environment Programme (UNEP)
 - GermanWatch
29. Consider the following statements:
Statement I: Very small animals are rarely found in the polar regions.
Statement II: Small animals have a small surface area relative to their volume.
Which one of the following is correct in respect of the above statements?
- Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I
 - Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I
 - Statement-I is correct but Statement-II is incorrect
 - Statement-I is incorrect but Statement-II is correct
30. The term 'forum shopping' recently seen in the news is the
- practice of choosing the court which is likely to provide the most favorable outcome.
 - common digital marketplace platform for day-to-day grocery shopping.
 - university forums in which students can post multiple topics and replies.
 - consumer forums in which the case may most be tried for the interests of all the parties.
31. Consider the following statements:
- Species evenness describes the distribution of abundance across the species in a community.
 - Species richness is the number of species within a defined region.
- Which of the statements given above is/are correct?
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
32. Consider the following pairs:
- | <i>National Park</i> | <i>State</i> |
|------------------------------|---------------------|
| 1. Kaziranga National Park | : Arunachal Pradesh |
| 2. Ranthambore National Park | : Rajasthan |
| 3. Kanha National Park | : Madhya Pradesh |
| 4. Simlipal National Park | : West Bengal |
- How many pairs given above are correctly matched?
- Only one pair
 - Only two pairs
 - Only three pairs
 - All four pairs
33. Consider the following processes:
- Agricultural runoff
 - Open Defecation
 - Discharge of Industrial Effluents
 - Floods
 - Discharge of coolant from Nuclear reactors
- Which of the above given processes are responsible for water pollution?
- 1, 3 and 4 only
 - 2 and 5 only
 - 2, 3 and 4 only
 - 1, 2, 3, 4 and 5

34. Which of the following statements best describes the term “Biotic potential”?
- It is the maximum rate at which a population can increase when resources are unlimited and environmental conditions are ideal.
 - It is the maximum amount of fertilizer that can be used without increasing the pH of soil.
 - It is the maximum rate of respiration of species in the tropics.
 - It is the maximum time taken by a plant species to grow under a polluted environment.

35. Consider the following statements:
- Biological Oxygen Demand (BOD) is an indicator of eutrophication in water bodies.
 - A rise in BOD means there is a presence of higher inorganic pollution in the water body.

Which of the statements given above is/are correct?

- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
36. With reference to the earth’s biodiversity, consider the following statements:
- More than 70 per cent of all the species recorded are plants.
 - Among animals, insects are the most species-rich taxonomic group.
- Which of the statements given above is/are correct?
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2

37. 'The Evil Quartet' is the sobriquet used to describe the major causes that have led to the rapid extinction of species across the world. In this context which of the following are the major causes of loss of biodiversity?

- Over-exploitation
- Habitat loss and fragmentation
- Alien species invasions
- Co-extinctions

Select the correct answer using the code given below.

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

38. Consider the following statements:

Statement-I: Generally, species diversity decreases as we move away from the equator towards the poles.

Statement-II: Unlike temperate environments, tropical ones are more seasonal and relatively unpredictable.

Which one of the following is correct in respect of the above statements?

- Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I
- Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I
- Statement-I is correct but statement-II is incorrect
- Statement-I is incorrect but Statement-II is correct

39. Consider the following statements about the Rehabilitation Council of India:
1. It is a statutory body under the Ministry of Social Justice and Empowerment.
 2. It prescribes minimum standards of education and training for professionals.
- 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. With regards to the Great Indian Bustard, consider the following statements:
1. It is endemic to the Indian Sub-continent.
 2. It is one of the species identified for the Species Recovery Programme under the Integrated Development of Wildlife Habitats of the Ministry of Environment and Forests.
 3. It is the state bird of Rajasthan.
- How many of the statements given above are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None
41. Consider the following statements regarding the Sustainable Development Goals (SDGs):
1. The SDGs are 17 sets of goals adopted under the Rio Declaration.
 2. The Ministry of Environment, Forest and Climate Change coordinates India's SDG implementation.
 3. The SDG India Index is released by the NITI Aayog in association with International Monetary Fund.
- Which of the statements given above is/are **not** correct?
- (a) 1 and 2 only
 - (b) 2 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3

42. Consider the following pairs:

<i>Drying Lakes</i>	<i>State</i>
---------------------	--------------

- | | |
|-----------------------|---------------|
| 1. Mettur | : Tamil Nadu |
| 2. Krishna Raja Sagar | : Karnataka |
| 3. Nagarjuna Sagar | : Maharashtra |
| 4. Idamalayar | : Kerala |

How many pairs given above are correctly matched?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) None of the pairs

43. With reference to the Environment Impact Assessment, consider the following statements:

1. Environmental Clearance (EC) has been made mandatory for modernisation of any activity or for setting up new projects under Environmental (Protection) Act 1986.
2. It provides an exemption from the EIA requirements to certain industries based on the investment value of their projects.

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. Consider the following statements:
Statement-I: Carbon dating cannot be used to determine the age of non-living things like rocks.

Statement-II: Carbon dating is based on the radioactive decay of the Carbon-12 isotope of Carbon.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I
- (c) Statement-I is correct but Statement-II is incorrect
- (d) Statement-I is incorrect but Statement-II is correct

45. "Endosulfan" considered to be a carcinogen, neurotoxin and genotoxin, is most likely used in which of the following?

- (a) pesticides in agriculture
- (b) reused plastic containers
- (c) fruit ripening substances
- (d) food preservatives

46. With reference to the decomposition of organic matter in an ecosystem, consider the following statements:

1. Anaerobic conditions inhibit the process of decomposition of organic matter.
2. Decomposition involves a series of processes including fragmentation, leaching, catabolism, humification, and mineralization

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

47. It is one of the biogeographic zones of India. The tropical evergreen forests occupy about one-third of the total area of this zone. About two-thirds of India's endemic plants are confined to this region. Grizzled Squirrel is restricted to a few forests in this zone.

Which of the following biogeographic zones of India is described in the above passage?

- (a) Gangetic plains
- (b) North-East India
- (c) Islands
- (d) Western Ghats

48. Article 355 empowers the Union government:

1. To protect every state in India against internal disturbances.
2. To issue directions to any state to ensure compliance with the Union's laws and regulations.
3. To impose President's Rule in a state in case of a failure or breakdown of constitutional machinery.

How many of the above statements are correct?

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

49. Consider the following pairs:

<i>Pollutant</i>	<i>Source</i>
1. Ozone	: Vehicular exhaust
2. Plutonium	: Nuclear reactor
3. Mercury	: Dental industry

How many of the pairs given above are correctly matched?

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

50. The term "Green Shoe Option" recently seen in the news is associated with which of the following?

- (a) Initial Public Offer in share market
- (b) Climate change agreements curbing greenhouse gas emissions
- (c) Construction of green highways
- (d) Giving boost to marine economy

51. Which of the following statements best describes the term 'bioprospecting'?

- (a) It is the exploration of plant and animal species for the utilization of their genetic resources in the production of commercial products.
- (b) It refers to unauthorized appropriation of biological materials.
- (c) It is an ex situ treatment technology that leverages biological processes to convert contaminants to low-toxicity byproducts.
- (d) It is a remediation technique that uses indigenous microorganisms to stimulate in-situ aerobic biological activity.

52. Consider the following pollutants:

- 1. Oxides of sulfur
- 2. Particulate Matter
- 3. Oxides of nitrogen
- 4. Carbon monoxide
- 5. Carbon dioxide

Which of the above given pollutants are released during the production of steel?

- (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

53. Consider the following statements with respect to National Adaptation Fund For Climate Change (NAFCC):

- 1. It was launched in 1992 as a result of the earth summit negotiations.
- 2. The National Bank for Agriculture and Rural Development (NABARD) is the National Implementing Entity (NIE).

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

54. Gomphonema rajaguruii, which is recently seen in news is a type of

- (a) Algae
- (b) Fish
- (c) Turtle
- (d) Butterfly

55. Consider the following statements regarding the Polar Stratospheric Clouds (PSC):

- 1. PSCs are readily formed in the extreme cold winters of the Antarctic atmosphere.
- 2. Ozone is destroyed in Antarctica at the maximum rate during the winters due to the abundance of PSCs.

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

56. With reference to food chains, consider the following statements:

1. All food chains begin with autotrophs.
2. In an aquatic ecosystem, Detritus Food Chain (DFC) is the major conduit for energy flow as Grazing Food Chain (GFC) is totally absent.
3. Saprotrophs form an important part of Detritus Food Chains.

Which of the statements given above is/are correct?

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

57. Consider the following compounds:

1. Chlorofluorocarbons
2. Hydrochlorofluorocarbons
3. Methyl Bromide
4. Hydrofluorocarbons

How many compounds given above are ozone-depleting?

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

58. Which of the following are the methods of carbon sequestration?

1. Iron fertilization of oceans
2. Subterranean injection of carbon dioxide
3. Growing seaweeds
4. Wetland restoration

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

59. Consider the following statements in relation to Pradhan Mantri Jan Vikas Karyakram (PMJVK):

1. It is a central sector scheme.
2. Its objective is to enhance the basic infrastructure facilities and socio-economic amenities for the minority communities.
3. Projects under it are implemented and managed by the concerned State/ Union Territory government.

How many of the statements given above are correct?

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

60. Consider the following statements about the Central Pollution Control Board (CPCB):

1. It is a statutory organization under the Ministry of Environment Forest and Climate Change.
2. It was formed under the Air (Prevention and Control Pollution) Act 1981.

Which of the statements given above is/are correct?

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

61. Consider the following statements:
Statement-I: Debt for Climate Swaps is an agreement where a creditor forgoes a portion of the debtor's foreign debt or provides debt relief in exchange for the debtor's commitment to invest in a specific environmental project.

Statement-II: Many developing nations are facing issues of rising debt loads, climate change, and nature loss due to such agreements.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I
- (b) Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I
- (c) Statement-I is correct but Statement-II is incorrect
- (d) Statement-I is incorrect but Statement-II is correct

62. The Innovative Finance Facility for Climate in Asia and the Pacific (IF-CAP) which is recently seen in news, is an initiative of

- (a) Asian Development Bank (ADB)
- (b) Economic and Social Commission for Asia and the Pacific (ESCAP)
- (c) Global Environment Facility (GEF)
- (d) New Industrial development bank

63. With regard to the functioning of the National Green Tribunal, consider the following statements:

- 1. It has been established under the Wild Life (Protection) Act, 1972 for effective and expeditious disposal of cases relating to environmental protection.
- 2. The tribunal is not bound by the procedure laid down under the Code of Civil Procedure, 1908.

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

64. Consider the following places:

- 1. Three Mile Island
- 2. Chernobyl
- 3. Fukushima
- 4. Deepwater Horizon (Gulf of Mexico)

How many of the above given places are associated with nuclear accidents?

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

65. Consider the following statements:

Statement-I: Ocean acidification is detrimental to coral reefs.

Statement-II: An increase in acidification slows the rate at which calcium carbonate is generated.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-I is the correct explanation for Statement-II
- (b) Both Statement-I and Statement-II are correct and Statement-I is not the correct explanation for Statement-II
- (c) Statement-I is correct but Statement-II is incorrect
- (d) Statement-I is incorrect but Statement-II is correct

66. Consider the following statements in the context of the Mahila Samman Savings Certificate:

1. Any woman can open a Mahila Samman account that can be opened for herself or on behalf of a minor girl.
2. The minimum investment amount is Rs 5,000 and the maximum investment is Rs 10 lakhs.
3. There is tax exemption available on the interest earned from the scheme.
4. The account holder may withdraw up to 40% of the balance after the first year from the date of account opening.

How many of the statements given above are correct?

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

67. Which of the following mechanisms have been formulated under the Kyoto Protocol?

1. Clean Development Mechanism
2. Joint Implementation
3. Intended Nationally Determined Contributions
4. International Emission Trading

Select the correct answer using the code given below.

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

68. Consider the following factors:

1. Natality
2. Mortality
3. Immigration

How many of the above factors contribute to an increase in the population density of a species in a region?

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

69. Consider the following pairs with reference to Sustainable Development Goals (SDGs):

<i>SDG Number</i>	<i>Goal</i>
1. SDG 3	: Gender Equality
2. SDG 9	: Access to Clean Energy
3. SDG 13	: Sustainable Cities and Communities
4. SDG 16	: Peace Justice and Strong Institutions

How many pairs given above are correctly matched?

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

70. Consider the following statements about the Biodiversity Heritage Site:

1. The Central Government in consultation with local bodies may notify the official gazette, of areas of biodiversity importance as Biodiversity Heritage Sites (BHS) under the Biological Diversity Act of 2002.
2. NallurTamarind Grove in Bengaluru, Karnataka, was designated as India's first Biodiversity Heritage Site.

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. Consider the following types of ecological pyramids:

1. Pyramids of number
2. Pyramid of biomass
3. Pyramids of energy

How many of the pyramids given above can never be inverted in shape?

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

72. Consider the following nutrient cycles:

1. Nitrogen cycle
2. Sulfur cycle
3. Carbon cycle
4. Phosphorus cycle

How many of the above are gaseous nutrient cycles?

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

73. Consider the following statements:

1. The Earth is currently believed to be undergoing the sixth mass extinction.
2. The current species extinction rates are estimated to be several times faster than in pre-human times.

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

74. Consider the following:

1. Carbon dioxide
2. Hydrofluorocarbons
3. Methane
4. Nitrous oxide

Which of the gases given above are greenhouse gases?

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

75. Consider the following statements regarding Trade Records Analysis of Flora and Fauna in International Commerce (TRAFFIC):

1. It is a wildlife trade monitoring network established jointly by the World Wide Fund for Nature (WWF) and the International Union for Conservation of Nature (IUCN).
2. It is concerned with the monitoring of both the legal as well as illegal trade in wildlife across the world.

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. The term 'Goldilocks economy' was recently seen in the news. It best describes which of the following scenarios in the economy?

- (a) It is a highly inflationary state, wherein the prices of commodities rises up exponentially.
- (b) It is a state wherein, the economy is not expanding or contracting by a large margin.
- (c) It is a state of economy where there is growth and employment opportunities.
- (d) It is a state of economy wherein there is high foreign investment pull-out.

77. Which of the following statements best describes the Chemical Oxygen Demand of a water body?

- (a) It is the amount of oxygen microorganisms required to break down organic materials by the microorganism.
- (b) It is the amount of oxygen required to break down the organic and inorganic material via oxidation.
- (c) It is a measure of dissolved oxygen in the water.
- (d) It is the measure of the turbidity of the water.

78. Consider the following statements with respect to wildlife sanctuaries:

1. It is a protected area where rare and endangered species are encouraged to breed in human-controlled environments with restricted settings.
2. Human activities like harvesting or timber collection of minor forest products and private ownership rights are allowed in these sanctuaries.

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

79. Consider the following pairs:

<i>Type of Biodiversity</i>	<i>Measure of</i>
-----------------------------	-------------------

- | | |
|----------|--|
| 1. Alpha | : Species richness in a particular ecosystem |
| 2. Beta | : Total biodiversity within a diversity |
| 3. Gamma | : Change in amount of diversity |
- diversity species between the ecosystems.

How many of the above pairs are correctly matched?

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

80. With reference to the radioactive pollution, consider the following statements:

1. Radioactive wastes can be in gaseous, liquid, or solid form and can vary in their level of radioactivity.
2. Radioactive wastes can remain radioactive for a few hours to hundreds of thousands of years.

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

81. Which of the following statements best describes the term 'spring shock'?

- (a) It is the sudden improvement in vegetation in polar regions in summer due to abnormal increase in photosynthesis.
- (b) It is the increase in daily average temperature due to El nino.
- (c) It is the sudden growth of algae in the northern Pacific ocean in the spring season.
- (d) It is the increase in acidification due to melting of snow and ice over lakes.

82. Which of the following regulatory bodies in India is responsible for formulating standards and guidelines to control noise pollution?

- (a) Centre for Environment Education
- (b) Pollution Control Committees of respective states
- (c) Central Pollution Control Board (CPCB)
- (d) National Green Tribunal (NGT)

83. Consider the following statements about photochemical smog:

1. It is an oxidizing smog.
2. It is made up of secondary pollutants like ozone.
3. It can be formed even in the absence of sunlight.

Which of the statements given above is/are correct?

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

84. Consider the following pairs:
- | | |
|----------------------------------|--|
| <i>Bilateral Exercise</i> | <i>Participating country with India</i> |
| 1. Dharma Guardian | : Japan |
| 2. Samudra Shakti | : France |
| 3. Al Mohed Al Hindi | : Yemen |
- How many of the above pairs are correctly matched?
- (a) Only one
(b) Only two
(c) All three
(d) None
85. With reference to Dhruv advanced light helicopter, consider the following statements:
1. It is designed and developed indigenously by Defence Research and Development Organisation (DRDO).
 2. It is capable of operating in all-weather conditions.
 3. It is certified for both civil and military roles.
- How many of the above statements are correct?
- (a) Only one
(b) Only two
(c) All three
(d) None
86. In the context of sustainable development, consider the following statements regarding the Malthusian theory of population:
1. It states that while the human population grows in a geometric progression, subsistence can only grow in an arithmetic progression.
 2. The theory was proposed for the first time in the Limits to Growth report by the Club of Rome in 1972.
- 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
87. Which of the following constitute the principles of radioactive waste management followed in India?
1. Protection of Human Health and Environment
 2. Concern for Future Generations
 3. Establishing Legal Framework
 4. Waste Minimisation, Management Interdependency and Safety of Facilities
- Select the correct answer using the code given below.
- (a) 1 and 2 only
(b) 2, 3 and 4 only
(c) 1 and 3 only
(d) 1, 2, 3 and 4
88. Consider the following trees:
1. Bamboo (*Bambusa vulgaris*)
 2. Mulberry (*Morus alba*)
 3. Ebony (*Diospyros ebenum*)
- How many of the above are deciduous trees?
- (a) Only one
(b) Only two
(c) Only three
(d) None
89. In the context of ecological conservation Davrai, Devgudi and Devrahati are:
- (a) Sacred groves
 - (b) Water harvesting methods
 - (c) Methods of organic farming
 - (d) Reservoir of medicinal plants
90. Consider the following biodiversity conservation sites:
1. Sacred groves
 2. Botanical gardens
 3. Zoological parks
 4. Wildlife safari parks
- How many of the above are examples of ex-situ conservation approaches?
- (a) Only one
(b) Only two
(c) Only three
(d) All four

91. Which of the following are major sources of soil pollutants in India?
1. Agricultural waste
 2. Fertilisers and pesticides
 3. Industrial waste
 4. Electronic waste
- Select the correct answer using the code given below.
- (a) 1 and 2 only
 - (b) 2 and 4 only
 - (c) 3 and 4 only
 - (d) 1, 2, 3 and 4
92. 'Gum Arabic' recently seen in the news for its use in the fizzy drinks and candy industry is derived from
- (a) Baobab tree
 - (b) Desert Date tree
 - (c) Acacia tree
 - (d) Almond tree
93. Which of the following tribes are involved in the conservation of tigers in Nagarjunasagar Srisaïlam Tiger Reserve (NSTR)?
- (a) Maldhari
 - (b) Bugun
 - (c) Chenchu
 - (d) Gond
94. In how many of the following examples of interactions among the species, one interacting species is definitely harmed?
1. Cuscuta growing on hedge plants
 2. Cattle egret and grazing cattle in close association
 3. Interaction between clown fish and sea anemone
- Select the correct answer using the code given below.
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None

95. Consider the following statements about the Integration of Sikkim:
1. Sikkim was ruled by the Namgyal dynasty before it became a part of India.
 2. A plebiscite on abolishing the monarchy was held in Sikkim in 1975.
 3. The 36th Constitutional Amendment Act was passed in Parliament to recognize Sikkim as a state.
- How many of the above statements are correct?
- (a) Only one
 - (b) Only two
 - (c) All three
 - (d) None
96. With reference to productivity in the ecosystem, consider the following statements:
1. The gross primary productivity of an ecosystem is the rate of production of organic matter during photosynthesis.
 2. The secondary productivity is the available biomass for consumption to herbivores and decomposers.
- 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
97. Consider the following organisms:
1. *Escherichia coli*
 2. *Enterococcus faecalis*
 3. *Salmonella typhi*
- Which of the organisms given above are present in contaminated water?
- (a) 1, 2 and 3
 - (b) 1 and 2 only
 - (c) 1 and 3 only
 - (d) 2 and 3 only

98. Which of the following statements is correct with reference to 'Agenda 21'?
- It is a UN resolution for the protection of 21 Pacific island states from sea-level rise.
 - It is a global effort by G20 countries and the UN to contribute towards carbon sequestration.
 - It is a blueprint developed in 1992 for a set of actions to be taken to achieve sustainability in the 21st century.
 - It is a list of 21 banned Persistent Organic Pollutants under the Stockholm Declaration.

99. With reference to the rules regarding 'recusal', consider the following statements:
- It is the act of abstaining from participation in an official action due to a conflict of interest of the judges.
 - Judges (Protection) Act, 1985 has provisions regarding the practice of judicial recusals.

Which of the statements given above is/are correct?

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

100. Consider the following statements regarding biosphere reserves:

- Each biosphere reserve is traditionally organized into five interrelated zones.
- Human interference is banned completely in the transition zone.
- Biosphere reserves are helpful in promoting scientific research and education.

Which of the statements given above is/are correct?

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

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