
DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

T.(b)(c): CMP-PR-UPSC08

Date : 13 Feb. 2022

TEST BOOKLET

**Basic aspects of Biodiversity, Parks, Sanctuaries, Afforestation,
Env. Research & Development, Pollution, Climate Change,
Indian Agriculture and Issues Related, Land Reforms**



Time Allowed : Two Hours

Maximum Marks : 200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES **NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ET(c) IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

| |
|-----------------|
| Roll No. |
|-----------------|
3. This Test Booklet contains **100** items (questions). 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, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
4. You have to mark all your responses **ONLY** on the separate Answer Sheet provide(d) See directions in the Answer Sheet.
5. **All** items carry equal marks.
6. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
7. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
8. Sheets for rough work are appended in the Test Booklet at the en(d)
9. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - i. There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
 - ii. If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be **correct** and there will be same penalty as above to that question.
 - iii. If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

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1. Consider the following statements about Seagrasses ?

1. Seagrasses form dense underwater seagrass meadows which are among the most productive ecosystems in the world.
2. They function as important carbon sinks
3. Seagrasses are heterotrophs

Select the correct answer from the codes given below

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

2. With reference to the Energy Statistics India 2021, which one of the following states has the highest estimated potential of renewable power ?

- (a) Karnataka
- (b) Gujarat
- (c) Tamil Nadu
- (d) Rajasthan

3. Which one of the following countries is **NOT** a Snow Leopard range country ?

- (a) Russia
- (b) Bangladesh
- (c) India
- (d) Bhutan

4. Which of the following phenomenon occurs when an organism absorbs a substance at a rate faster than the rate at which the substance is lost by catabolism and excretion ?

- (a) Biomagnification
- (b) Biosparging
- (c) Biodilution
- (d) Bioaccumulation

5. Consider the following pairs:

| Type of Diversity | Example |
|------------------------|---|
| 1. Genetic diversity | Mangroves Forests and Rainforests |
| 2. Species diversity | Greater amphibian species in the Western Ghats than the Eastern Ghats |
| 3. Ecosystem diversity | Different varieties of Mango found in India |

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

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

6. Consider the following statements:

1. Biochemical Oxygen Demand gives the estimate of biodegradable organic matter in sewage water.
2. Dissolved oxygen remains the same throughout the river irrespective of the point of sewage discharge.

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

7. Which of the following best describes the process of 'Homeostasis' ?
- (a) Symbiotic relationship between living organisms.
 - (b) Maintenance of a stable internal environment by living organisms.
 - (c) Evolutionary changes in living organisms due to climate change.
 - (d) Effect of living organisms on their habitat.

8. Consider the following statements about Mangroves :
1. All coastal areas are suitable for mangrove cultivation.
 2. Mangroves require highly saline water for their growth.
 3. Soft substrates like mudflats enable the mangroves to grow and perpetuate.
- Which of the statements given above are correct ?
- (a) 1 only
 - (b) 3 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3

9. Consider the following statements about E-waste in India :
1. Improper management of e-waste can contribute to global warming.
 2. E-waste management Rules 2018 empowers the State Pollution Control Board to set yearly collection targets for Producer Responsibility Organisations.
 3. Basel Convention obliges parties to ensure that e-wastes are managed and disposed of in an environmentally sound manner.
- Which of the statements given above is/are correct ?
- (a) 3 only
 - (b) 1 and 3 only
 - (c) 2 and 3 only
 - (d) 1, 2 and 3

10. Consider the following statements :
1. The per capita fish capture in the temperate regions is far higher than in the tropical regions.
 2. The contribution of the Eastern Coast of India to national fisheries production is higher than that of the western coast 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

- 11.** With respect to the Rushikulya river, often seen in the news, which one of the following statements is correct ?
- (a) Its river mouth is considered the second-biggest rookery in India
 - (b) It originates in the state of Madhya Pradesh.
 - (c) It is flowing only within the State of Madhya Pradesh and Odisha
 - (d) It is originating from the Western Ghats

- 12.** Consider the following statements about the “Wildlife Crime Control Bureau”:

1. It is constituted under the Wildlife (Protection) Act of 1972.
2. It assists State Governments to ensure success in prosecutions related to wildlife crimes.
3. It has received the Asia Environmental Enforcement Award of 2020.

Which of the statements given above is/are correct ?

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

- 13.** The role and position a species has in its environment; how it meets its needs for food and shelter, how it survives, and how it reproduces. Which of the following is best described by the above passage ?

- (a) Ecosystem
- (b) Ecological niche
- (c) Ecocline
- (d) Ecotone

- 14.** Consider the following statements:

1. Biological contaminants include bacteria, molds, mildew, viruses,
2. Viruses are transmitted by people but not by animals
3. Bacteria are carried by people, animals, and soil and plant debris

Which of the statements given above is/are correct ?

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

- 15.** With reference to ‘Critical Wildlife Habitat’, consider the following statements :

1. They have been defined under Wildlife Protection Act 1972.
2. Both the central and state government can declare an area as ‘Critical Wildlife habitat’.

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.** Which of the following animals are included in the IUCN’s list of endangered mammals ?

1. Asiatic Cheetah
2. Tiger
3. Hangul
4. Asiatic Elephant

Select the correct answer using the code given below.

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

17. Which of the following chemical compounds are present in hand sanitizers ?

1. Sulphuric Acid (H₂SO₄)
2. Isopropyl alcohol
3. Nitric Acid (HNO₃)
4. Ethanol

Select the correct answer using the code given below.

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

18. A gradual phasing out of hydrofluorocarbons (HFCs) will assist in achieving the targets of which of the following international instruments ?

1. Kigali Amendment to the Montreal Protocol
2. Cartagena Protocol on Biosafety
3. Paris Agreement of the UNFCCC.

Select the correct answer using the code given below.

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

19. With reference to the differences between Global Warming Potential (GWP) and Global Temperature Potential (GTP), consider the following statements:

1. GWP is a measure of the heat absorbed over a given time period due to emissions of a gas,
2. GTP is a measure of the temperature change at the end of that time period.

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. Which of the following countries form a part of the range countries of Central Asian Flyway of the migratory birds ?

1. India
2. Russia
3. Mongolia
4. Australia

Select the correct answer using the code given below.

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

21. Which of the following pollutants are released directly through vehicular emission ?

1. Nitrogen oxides (NO_x)
2. Carbon Dioxide
3. Ozone
4. Lead

Select the correct answer using the code given below.

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

22. Which among the Following are the major factors affecting the biodiversity of phytoplankton in a marine ecosystem ?

1. Gravitational force of moon
2. Light
3. Salinity
4. Surface Tension
5. Latitude

Select the correct answer using the code given below :

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

23. Consider the following pairs

| State | Highest Population |
|--------------------|--------------------|
| 1. Madhya Pradesh: | Tigers |
| 2. Maharashtra: | Leopards |
| 3. Uttar Pradesh: | Ghariais |
| 4. Karnataka: | Elephants |

Which of the pairs given above are correctly matched ?

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

24. Which of the following bodies come under the purview of the Ministry of Environment, Forest and Climate Change ?

1. Animal Welfare Board of India
2. National Tiger Conservation Authority
3. National Biodiversity Authority
4. Wildlife Institute of India

Select the correct answer using the code given below.

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

25. Which of the following statements best defines 'eco bridges'?

- (a) They are genetic links that are formed when species interbreed like Tiger and Lion breeding resulting in Liger.
- (b) They are links between animal kingdom and plant kingdom in an ecosystem.
- (c) They are bridges that enhance wildlife connectivity which can be disrupted because of infrastructure like highways etc.
- (d) These are natural bridges formed by roots of trees and Epiphytes.

26. Consider the following statements with respect to ozone:

- 1. Size of the Ozone hole in Antarctica is continuously increasing.
- 2. Tropospheric ozone is created by chemical reactions between oxides of nitrogen and volatile organic compounds (VOCs)
- 3. Ground-level ozone is a harmful air pollutant.

Which of the statements given above are correct ?

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

27. Consider the following statements with reference to Soil Conservation:

- 1. Soil leaching refers to the movement of nutrient elements from topsoil through the soil profile.
- 2. Leaching is a natural process caused mainly by precipitation, acidification, and nitrogen saturation
- 3. Human activity such as excess watering of the crop in farmland influences leaching

Which of the statements given above is/are correct ?

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

28. Consider the following statements with reference to Biogas :

- 1. Biogas is produced by the anaerobic digestion
- 2. Biogas can not be generated from locally available materials like animal dung, agricultural waste
- 3. Biogas contains roughly 50-70 percent methane, 30-40 percent carbon dioxide, and trace amounts of other gases.

Which of the statements given above is/are correct ?

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

- 29.** Consider the following statements about the coral reef
1. Corals are one of the most productive ecosystems on Earth, hence referred to as rainforests of the sea
 2. Derive nourishment and energy from zooxanthellae algae.
 3. Share Predatory relationship with zooxanthellae algae.
 4. Mostly confined between 25 degrees North and South on the globe.
 5. Muddy water facilitates the growth of coral

Which of the statements given above is/are correct ?

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

- 30.** Consider the following statements about Central Pollution Control Board (CPCB) :

1. It is a statutory body established under the Environment Protection Act of 1986
2. Further, CPCB was entrusted with the powers and functions under the Air (Prevention and Control of 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

- 31.** Consider the following statement
1. Corbett Tiger Reserve (CTR) has the highest tiger density among the 100 Tiger Reserve in India
 2. Corbett Tiger Reserve is located in Uttarakhand.

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

- 32.** Consider the following pairs :

| Protected area | State |
|------------------------------------|--------------|
| 1. Kumbhalgarh Wildlife Sanctuary: | Karnataka |
| 2. Lemru Elephant Reserve: | Chhattisgarh |
| 3. Bandipur National Park: | Rajasthan |

Which of the following pair/pairs are correctly matched ?

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

- 33.** Which of the following is essential for sustainable use of resources ?

1. Inclusive Growth
2. Technological and Industrial development
3. Overpopulation

Select the correct answer using the code given below.

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

34. Which of the following is/are the in-situ methods of conservation ?

1. Biosphere Reserve
2. Community Reserve
3. National Parks
4. Seed Banks

Select the correct answer using the code given below:

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

35. Consider the following statements

1. Alpha diversity refers to diversity within a particular area or ecosystem.
2. Beta diversity is a comparison of diversity between ecosystems.

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

36. Which of the following statements is correct regarding the Ecosystem ?

1. An ecosystem is a functional unit where living organisms interact among themselves and also with the surrounding physical environment.
2. Vertical distribution of different species occupying different levels is called stratification.

Select the correct option from the codes given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 and 2

37. Consider the following statements regarding different kinds of Ecosystem:

1. Grasslands rarely receive enough rain to support trees and does not possess enough soil nutrients to feed large, grassy expanses.
2. Tundra is the treeless environment of the Arctic Circle.
3. The taiga is a region of subarctic forest south of the Arctic Circle.

Which of the above statement/s is/are correct ?

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

38. With respect to productivity of an ecosystem, consider the following statements:

1. Gross primary productivity of an ecosystem is the rate of production of organic matter during photosynthesis.
2. Secondary productivity is defined as the rate of formation of new organic matter by producers.

Which of the above statement/s is/are **incorrect** ?

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

- 39.** Consider the following statements :
1. Decomposition is largely an oxygen-requiring process.
 2. Decomposers break down complex organic matter into organic and inorganic substances like carbon dioxide, water and nutrients.
 3. By the process of leaching, watersoluble inorganic nutrients go down into the soil horizon and get precipitated as unavailable salts.
 4. Humification leads to accumulation of a dark coloured amorphous substance called humus that is highly resistant to microbial action.

Which of the above statement/s is/are correct regarding Decomposition in an Ecosystem ?

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

- 40.** The term Bioprospecting means:
- (a) Using living microorganisms to degrade the environmental contaminants.
 - (b) Exploring molecular, genetic and species-level diversity for products of economic importance.
 - (c) The modification of the environment to stimulate existing bacteria capable of bioremediation.
 - (d) In-situ remediation technology

- 41.** Which of the following statements is/are correct regarding Air (Prevention and Control of Pollution) Act, 1981 ?
1. It makes provisions for establishment of Central Pollution Control Board (CPCB).
 2. It doesn't cover noise pollution.
 3. Act says that no person shall, without the previous consent of the State Board, establish or operate any industrial plant in an air pollution control area.

Select the correct answer using the code given below :

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

- 42.** Methane (CH₄) is one of the six Green House Gases under the Kyoto protocol. Which of the following are the sources of methane ?
1. Gas drilling
 2. Paddy fields
 3. Bio fuels

Select the correct answer using the code given below :

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

43. Which of the following are the examples of Biomes ?

1. Grasslands
2. Desert
3. Estuaries
4. Coral reefs
5. Tropical Rain Forest
6. Mangroves

Select the correct answer using the code given below :

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

44. Consider the following statements regarding Photochemical smog.

1. Photochemical smog is a mixture of pollutants that are formed when nitrogen oxides and volatile organic compounds (VOCs) react to sunlight.
2. One of the primary components of photochemical smog is stratospheric ozone.

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 regarding Asian Elephant.

1. Asian elephant is the largest living land animal in Asia
2. It has been listed as Critically Endangered on the IUCN Red List

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. Consider the following statements regarding Ecotone.

1. An ecotone is a zone of junction or a transition area between two biomes
2. Mangrove forests represent an ecotone.
3. The organisms which occur primarily or most abundantly in this zone are known as edge species.

Which of the above statements is/are correct ?

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

47. In order for biomagnification to occur, the pollutant must be

1. long-lived
2. Immobile
3. Soluble in water
4. Biologically inactive

Select the correct answer code:

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

- 48.** Consider the following statements regarding Millets
1. Tamil Nadu and Odisha are the leading states in the production of millets.
 2. Millets help in carbon sequestration.
- 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
- 49.** In which of the following states is Pakhui Wildlife sanctuary located ?
- (a) Nagaland
 - (b) Manipur
 - (c) Arunachal Pradesh
 - (d) Meghalaya
- 50.** Consider the following statements regarding Eco-Sensitive Zones
1. ESZ are areas within 20 kms around Protected Areas, National Parks and Wildlife Sanctuaries.
 2. ESZs are notified by MoEFCC, under The Wild Life (Protection) Act, 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
- 51.** Which of the following are the most likely places to find the Swamp deer in its natural habitat ?
- (a) Askot Wildlife Sanctuary
 - (b) Gangotri National Park
 - (c) Kanha National Park
 - (d) Mudumalai Wildlife Sanctuary
- 52.** Consider the following statements regarding Green-Ag Project
1. Green-Ag project is funded by the Global Environment Facility, while the Environment Ministry (MoEF&CC) is the national executing agency.
 2. Project is implemented in ecologically sensitive Himalayan region 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
- 53.** Which of the following is the correct sequence of Ramsar sites arranged from west to east ?
1. Bhoj
 2. Chilika
 3. Harike
 4. Bhitarkanika
- Select the correct answer using the code given below.
- (a) 1-2-4-3
 - (b) 3-2-4-1
 - (c) 1-3-4-2
 - (d) 3-1-2-4
- 54.** Which of the following conservation reserve(s) is/are correctly matched ?
1. Sariska Tiger Reserve – Rajasthan
 2. Pakke Tiger Reserve – Kerala
 3. Nameri National Park – Rajasthan
- Select the correct answer using the code given below:
- (a) 1 only
 - (b) 2 and 3 only
 - (c) 1 and 3 only
 - (d) All of the above

55. Consider the following statements regarding Forest Cover of India:

1. The area of Open Forest is much higher than under Very Dense Forest (VDF) in India.
2. Uttarakhand has the highest area under forest cover among the states through which Ganga River flows.

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. Consider the following statements regarding the Tso Kar wetland :

1. It is north of the Pangong Tso.
2. It is an A1 Category Important Bird Area (IBA) of Sikkim as per IUCN.

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

57. Which of the following National Parks is/are located in Andaman and Nicobar Islands ?

1. Galathea Bay National Park
2. Rani Jhansi National Park
3. Indira Gandhi National Park

Select the correct answer using the code given below:

Which of the following National Parks is/are located in Andaman and Nicobar Islands ?

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

58. Which of the following is/are types of Ecosystem Services derived from nature ?

1. Provisioning Services
2. Regulating Services
3. Cultural Services

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) All of the above

59. Arrange the following National Parks in India from West to East:

1. Dinosaur Fossil National Park
2. Black Buck National Park
3. Guru Ghasidas National Park
4. Betla National Park

Select the correct answer using the code given below:

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

60. Arrange the following Tiger reserves from west to east direction:

1. Buxa tiger reserve
2. Manas tiger reserve
3. Pakke tiger reserve
4. Kaziranga tiger reserve

Select the correct answer using the codes given below:

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

61. Consider the following statements regarding the Kaziranga National Park:

1. The park has elephant-grass meadows, swampy lagoons and dense forests.
2. Kaziranga National Park situated in Assam state of India, is a UNESCO world heritage sites of India and known for Great Indian one horned Rhinoceros. The park is recognized as an Important Bird Area by the BirdLife International.

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

62. The Biorock or mineral accretion technology, sometimes seen in news is related to which of the following ?

- (a) Mangrove protection
- (b) Coral reefs restoration
- (c) Carbon Sink
- (d) Tiger Census

63. Which of the following organization has released the Living Planet Report 2020 ?

- (a) World Wide Fund for Nature
- (b) International Union for Conservation of Nature
- (c) Conservation International
- (d) United Nations Framework Convention on Climate Change

64. Ex-situ conservation has advantage over in-situ conservation in terms of following -

1. Public education and awareness.
2. Natural selection.
3. Recovery program for endangered species.
4. Lesser conflict between state and local community

Select the correct answer using the codes given below

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

65. Consider the following statements about possible consequences of global temperature rise.

1. Trees will start flowering sooner.
2. Mass displacement of animals.
3. Some diseases will spread, such as mosquito-borne malaria
4. Lesser land will be available.

Select the correct answer using the codes given below.

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

66. Paris Agreement differ from its predecessor Kyoto protocol in terms of following

1. Legally binding on every UNFCCC member.
2. Mechanism to punish defaulters.
3. Binding emission targets and free technology to developing countries
4. Firm commitment of funding from every member.

Select the correct answer using the codes given below.

- (a) None
- (b) 4 only
- (c) 1, 3, 4
- (d) 3 and 4

67. Which of the following is **NOT** a greenhouse gas under Kyoto protocol ?

1. SO₂
2. CH₄
3. CO
4. NO₂

Select the correct answer using the codes given below.

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

68. Which of the following statements about biodiversity are correct ?

1. Diversity consistently measures higher in the tropics.
2. Biodiversity is the foundation of ecosystem services to which human well-being is intimately linked.

- (a) 1 only
- (b) 2 only
- (c) Both are correct.
- (d) None

69. Which of the following factors are responsible for change in habit over time ?

1. Earthquake
2. Wildfire
3. Solar radiation
4. Introduction of alien species.

Select the correct answer using the codes given below.

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

70. National Mission on Sustainable Agriculture is one of eight missions in National Action Plan on Climate Change. Which of the following statements about this mission is/are true ?

1. It aims at providing credit support to farmers.
2. Market availability and livelihood diversification are its important components.

Select the correct answer using the codes given below.

- (a) 1 only
- (b) 2 only
- (c) Both
- (d) None

71. Which of the following statements about Keibullamjao National Park are **incorrect** ?

1. Loktak lake is part of it.
2. It is the only floating park in the world.

Select the correct answer using the codes given below

- (a) 1 only
- (b) 2 only
- (c) Both
- (d) None

72. Habit of any terrestrial species includes

1. Geography
2. Vegetation
3. Soil
4. Climate
5. Insolation

Select the correct answer using the codes given below

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

73. Which of the following are greenhouse gases as well as ozone depleting gases ?

1. Carbon dioxide
2. Hydrogen sulphide
3. Tetrachlorocarbon
4. Methane.
5. Perfluorocarbon

Select the correct answer using the codes given below

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

74. The Living Planet Report is published every two years. It is based on the Living Planet Index and ecological footprint calculations. Which of the following organisation publish this report ?

- (a) United Nation Environment Programme
- (b) International Union of Conservation Nature
- (c) World Wildlife Fund For Nature
- (d) Convention of Biological Diversity

75. Lion Tailed Macaque is an endangered species. It's natural habitat is in India. Which is the following site where you will see this species ?

- (a) Eravikulam National Park
- (b) Corbett national park
- (c) Bhitarkanika national park
- (d) Dachigam national park

76. Which of the following are UNESCO world Heritage sites in India ?

1. Kaziranga
2. Keoladeo national park
3. Sundarbans
4. Pin valley national park
5. Kanha national park

Select the correct answer using the codes given below

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

77. Which of the following statements about India's Intended Nationally Determined Contributions are correct ?

1. To reduce the emissions intensity of its GDP by 33 to 35 percent by 2020 from 2005 level.
2. To create an additional carbon sink of 3.5 to 4 billion tonnes of CO₂ equivalent through additional forest and tree cover by 2030.
3. To adopt a climate friendly and a cleaner path.

Select the correct answer using the codes given below

- (a) 1 only
- (b) 3 only
- (c) All
- (d) None

78. Eco sensitive zones are demarcated to protect biodiversity and wildlife. It is done under which of the following Act ?

- (a) Environment Protection Act 1986
- (b) Wildlife Protection Act 1972
- (c) Biodiversity Act 2002
- (d) None of the above

79. Which of the following organisation is responsible for establishment of United Nation Forum on Forest ?

- (a) United Nations Environment Programme
- (b) United Nations Economic and Social Council
- (c) United Nations Framework Convention on Climate Change.
- (d) World Bank

80. Choose the correct north-south sequence of following biosphere reserves.

1. Manas
2. Nokrek
3. Nilgiri
4. Seshachalam
5. Amarkantak

Select the correct answer using the codes given below

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

81. Which of the following statements about State of Forest Report is/ are correct ?

1. India ranked 10th in the world, with 24.4% of land area under forest and tree cover.
2. States having largest forest cover are Madhya Pradesh, Arunachal Pradesh and Chhattisgarh in descending order.

Select the correct answer using the codes given below.

- (a) 1 only
- (b) 2 only
- (c) Both
- (d) None

- 82.** Which of the following statements about Comprehensive Environmental Pollution Index are correct ?
1. Comprehensive Environmental Pollution Index (CEPI) was evolved by Central Pollution Control Board .
 2. Industrial clusters having CEPI greater than 70, on a scale of 0 to 100, has been identified as critically polluted.
- Select the correct answer using the codes given below.
- (a) 1 only
 - (b) 2 only
 - (c) Both
 - (d) None
- 83.** With which of the following, the Agenda 21' of Rio Summit, 1992 is related to ?
- (a) Sustainable development
 - (b) Combating the consequences of population explosion.
 - (c) Mitigation norms of Green House Gases (GHGs) emission.
 - (d) Technology transfer mechanism to developing countries for 'clean-energy' production.
- 84.** Which among the following National Park is distinct in India because it encompasses a Project Tiger Reserve, an Elephant Reserve and a Biosphere Reserve (all of them) ?
- (a) Manas Tiger Reserve
 - (b) Kanha Tiger Reserve
 - (c) Panna Tiger Reserve
 - (d) Simlipal Tiger Reserve
- 85.** Nagoya Protocol ” is related to which among the following ?
- (a) Biosafety
 - (b) Persistent organic pollutants
 - (c) Migratory birds
 - (d) Biodiversity
- 86.** Which among the following is the unit of measurement of the “Ecological Footprint” ?
- (a) Global Hectare
 - (b) Calories
 - (c) Carbon equivalent
 - (d) Carbon tonnes
- 87.** Recently a new species of dung beetle, which is relatively large size, distinct blue colour and distinguishing characteristic of the strong sexual dimorphism, is discovered in which of the following state ?
- (a) Arunachal Pradesh
 - (b) West Bengal
 - (c) Tamil Nadu
 - (d) Rajasthan
- 88.** Which of the following species are critically endangered in India ?
1. Northern River Terrapin
 2. Nicobar Megapode
 3. Arabian Sea Humpback Whale
 4. Red Panda
- Select the correct answer using the code given below:
- (a) 1, 2 and 3 only
 - (b) 2, 3 and 4 only
 - (c) 1, 3 and 4 only
 - (d) 1, 2, 3 and 4

89. According to the “Botanical Survey of India report – Orchids of India: A Pictorial Guide”, a publication detailing all the species of India, which of the following state has highest endemic species of orchids ?

- (a) Kerala
- (b) Tamil Nadu
- (c) Arunachal Pradesh
- (d) Sikkim

90. According to IUCN, which of the following vulture species is/are critically endangered ?

- 1. White-backed vulture
- 2. Indian Griffon vulture
- 3. Bearded vulture

Select the correct answer using the code given below :

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

91. Consider the following statements regarding the “tiger census” in India :

- 1. It is conducted for once in four years.
- 2. It was first conducted in 2002 by National Tiger Conservation Authority (NTCA).

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

92. The Central Government provides financial support to the States for supporting conservation of wildlife and biodiversity. Which of the following scheme(s) is/are supported by central government ?

- 1. Development of National Parks and Sanctuaries (DNPS).
- 2. National tiger conservation authority (Project tiger).
- 3. Project Elephant (PE).

Select the correct answer using the code given below

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

93. Consider the following statements regarding the Central Zoo Authority (CZA):

- 1. It was established in 2002 under executive resolution.
- 2. It regulates the exchange of animals of endangered category listed under Schedule I and II of Wildlife protection act, 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

94. The People’s Biodiversity Registers (PBRs) is related to which of the following ?

- (a) The Indian Forest Act, 1927
- (b) The Wildlife Protection Act, 1972
- (c) The Forest (Conservation) Act, 1980
- (d) The Biological Diversity Act 2002

95. With reference to the centrally sponsored scheme – Integrated Development of Wildlife Habitats (CSS-IDWH), which of the following are the components of the scheme ?

1. Support to Protected Areas.
2. Protection of Wildlife outside Protected Areas.
3. Recovery programmes for saving critically endangered species and habitats.
4. Climate Change.

Select the correct answer using the code given below:

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

96. Consider the following statements regarding the “Ganges River Dolphin”:

1. It can only live in freshwater and is essentially blind.
2. The Vikramshila Gangetic Dolphin Sanctuary (VGDS) is the only dolphin sanctuary 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

97. Consider the following statements regarding the National Clean Air Programme (NCAP) :

1. It aims to reduce the concentration of PM10 and PM2.5 by at least 20 percent by 2024, with 2017 as the base year.
2. City specific action plans have been formulated for 102 Aspirational Districts identified for implementing mitigation actions under NCAP.

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. What are Safe water releaser (SWAS) and Safe minimal aluminium (SAFAL) that have been in news recently ?

- (a) Greywater treatment modules
- (b) Less Polluting Firecrackers
- (c) Habitable outer space environment modules
- (d) Artificial Intelligence based irrigation system

99. Consider the following statements regarding the Commission for Air Quality Management in National Capital Region and Adjoining Areas :

1. The Minister of Environment, Forest and Climate Change is the ex-officio chairperson of The commission.
2. The adjoining areas for the commission include State of Uttarakhand, Himachal Pradesh, Punjab and Haryana.

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. Which of the following pollutants is/ are monitored under the National Air Quality Index ?

1. SO₂
2. NO₂
3. NH₃

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) All of the above