

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

T.B.C. : STS-K-TPT
Serial No.:

Test Booklet Series

TEST BOOKLET

**Subject : Test 24 – Environment
Question Paper****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, ETC. IF SO, GOT IT REPLACED BY A COMPLETE TEST BOOKLET.

2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.

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 100/80 items (questions). Each item is printed in English. Each item comprises of 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.

5. You have to mark all your responses ONLY on the separate Answer Sheet provided. See directions in the Answer Sheet.

6. All items carry equal marks

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 Sheet as per instructions sent to you with your Admission Certificate.

8. 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.

9. Sheets for rough work are appended in the Test Booklet at the end.

10. 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** if 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. Which of the following Biosphere Reserves is spread across three states of Tamil Nadu, Karnataka, and Kerala?

- (a) Nilgiri
- (b) Agasthyamalai
- (c) Seshachalam
- (d) Both (a) and (b)

2. Which of the following statements is incorrect regarding variation of biodiversity over Earth's surface?

- (a) Terrestrial biodiversity is higher near the equator than poles.
- (b) Exogenic processes play no role in influencing biodiversity.
- (c) The polar region has a large number of fewer species than the tropical region.
- (d) None of the above.

3. Consider the following statements regarding Forest Cover and Forest Area:

- 1. The forest cover in the area notified and recorded as the forest land irrespective of the existence of trees, while the actual forest area is the area occupied by forests with canopy.
- 2. The forest area is based on the records of the State Revenue Department, while the forest cover is based on aerial photographs and satellite imageries.

Which of the above statements is/are incorrect?

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

4. In the context of Mangrove Forests, consider the following statements:

- 1. They are highly developed in the Andaman and Nicobar Islands
- 2. These forests give shelter to a wide variety of birds.
- 3. They consist of a number of salt-tolerant species of plants.
- 4. They grow along the coasts in the salt marshes, tidal creeks and estuaries.

Which of the above statements are correct?

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

5. Match the following type of coral reefs with their characteristic features:

List I List II

- A. Barrier Reefs 1. Close to shore
- B. Patch Reefs 2. Shallow lagoon in center
- C. Fringing Reefs 3. Parallel to the coastline
- D. Atolls 4. Small and isolated

Select the correct answer using the code given below:

A B C D

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

6. With reference to 4th cycle of All India Tiger Estimation, consider the following statements:

- 1. All India Tiger Estimation is done every 4 years by National Tiger Conservation Authority (NTCA).
- 2. Karnataka has the maximum number of tigers in India.
- 3. M-STRIPES Application for digital estimation of tiger population is developed by Wildlife Institute of India (WII).

Which of the above statements is/are correct?

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

7. Washington Convention is related to:

- (a) Climate Change
- (b) Wildlife Protection
- (c) Nuclear Disarmament
- (d) Global Financial System

8. Which of the following statements are incorrect regarding the recent amendment in the Indian Forest Act (IFA), 1927?

1. The Amendment introduces a new category of forest.
2. Village Forests will be managed by the community with the help of the State Government.
3. 'Production Forests' aims to increase the production of timber only.

Select the correct answer using below code:

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

9. Which of the following statement is true

1. Indigenous Species and Endemic Species are same as it implies that an organism necessarily originated or evolved where it is found
2. Introduced Species and Exotic Species are same as it implies that an organism is found living outside its native range
3. Invasive Species and Exotic Species are same as they establish and spread beyond the place of introduction

Select the answer from the below codes

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

10. Which of the following are matched correctly

1. Antibiosis – Production of secretions by an organism which is harmful to other Organisms
2. Homeostasis – The tendency towards a relatively stable equilibrium between interdependent elements
3. Symbiosis - Beneficial interaction among species the live in close association

Select the answer from the below codes

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

11. Difference between tropical rain forest and temperate forest is

- a) Tropical forest is homogeneous while temperate one is heterogeneous
- b) Tropical forest has more of angiosperms while temperate forests have more of gymnosperms
- c) Plants of temperate forests are more mesophytes
- d) Trees of temperate forests are taller than those of tropical forests

12. Which of the following is correctly matched

1. Hydroponics – Growing plants without soil
2. Red Tide – Harmful Algal Blooms
3. Winter Kill – Icesheets restricting sunlight
4. Timberline – Trees don't grow above this line

Select the answer from the below codes

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

13. Arrange the following states in terms of size of forest cover in decending order

1. Madhya Pradesh
2. Arunachal Pradesh
3. Chattisgarh

Select the answer from the below codes

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

14. Which of the following are matched correctly with their respective definition

1. Keystone Species: plays a unique and crucial role in the way an ecosystem functions
2. Flagship Species: a species selected to act as an ambassador, icon or symbol for a defined habitat,
3. Foundation Species: species that has a strong role in structuring a community and can occupy any trophic level of food web
4. Indicator Species : Sensitive species that defines a trait or characteristics of the environment

Select the answer from the below codes

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

15. Which of the following regions in India are Biodiversity Hotspots

1. Himalayas
2. Sundaland
3. Eastern Ghats
4. Western Ghats

Select the answer from the below codes

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

16. Which of the following statements are true with reference to Allelopathy?

1. It is the phenomenon of seed dormancy due to presence of germination inhibition on the source of seed coat
2. It is the phenomenon of the production of substances by one plant having harmful/beneficial effect on the other
3. It helps proper spacing of the plants to reduce competition
4. It helps the xerophytes to grow in small groups to reduce the transpiration

Select the answer from the below codes

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

17. Which of the following statement is correct with reference to Indian Forest?

1. Forest Policy 1988 aims to bring 33% of the total area of India under Forest Cover with 80% under hills and 20% under Plains
2. Currently India's total forest cover is 21.54% and tree cover is 2.85% with combined forest and tree cover 24.39%
3. No state in India have achieved the 33% target of forest cover

Select the answer from the below codes

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

18. Which of the following factors are matched correctly in line with Biosphere reserve

- a) Core Zone: Dedicated to Conservation
- b) Buffer Zone: Equitable Sharing of Benefits
- c) Transition Zone: Sustainable Use
- d) Biosphere Reserve Declared under: Wildlife Protection Act 1972

Select the answer from the below codes

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

19. Consider the following statement?

1. Habitat Fragmentation Refers Discontinuities in a Habitat Due To Human or Natural Activities
2. The implications of the habitat fragmentation can be reduced by building a corridors between fragmented habitats
3. The ROR hydroelectric projects have no pondage and thus do not result in Habitat Fragmentation

Which of the above statements are true

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

20. Consider the following statements regarding the 'fire line':

1. Fire line is a gap in vegetation that acts as a barrier during wildfire.
2. Man-made infrastructure like railway lines act as fire line.

Which of the above statements are correct?

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

21. The Convention creates legally binding obligations for the implementation of the Prior Informed Consent (PIC) procedure. The Convention covers pesticides and industrial chemicals that have been banned or severely restricted for health or environmental reasons. It promotes shared responsibility and cooperative efforts among Parties in the international trade of certain hazardous chemicals in order to protect human health and the environment from potential harm. Which of the conventions/organisation is described in the above passage?

- a) Bonn Convention
- b) Basel Convention
- c) Rotterdam Convention
- d) Stockholm convention

22. Which of the following correctly defines 'Biodiversity Coldspots'?

- a) High biological diversity of endemic plants with high rate of habitat loss
- b) High biological diversity of endemic plants with low rate of habitat loss
- c) Low biological diversity of endemic plants with low rate of habitat loss
- d) Low biological diversity of endemic plants with high rate of habitat loss

23. Which of the following is the most appropriate reason for the Himalayan Range having a very rich species diversity?

- a) It has a high rainfall that supports luxuriant vegetative growth
- b) It is a confluence of different biogeographical zones
- c) Exotic and invasive species have not been introduced in this region
- d) It has less human interference

24. Which of the following criterias have contributed to the recognition of Western Ghats-Sri Lanka and Indo-Burma regions as hotspots of biodiversity?

1. Species richness
2. Vegetation density
3. Endemism
4. Ethno-botanical importance
5. Threat perception
6. Adaptation of flora and fauna to warm and humid conditions

Select the correct answer using the code given below:

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

25. Consider the following statements:

1. Biodiversity is normally greater in the lower latitudes as compared to the higher latitudes.
2. Along the mountain gradients, biodiversity is normally greater in the lower altitudes as compared to the higher altitudes.

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

26. Which of the following can be threats to the biodiversity of a geographical area?

1. Global warming
2. Fragmentation of habitat
3. Invasion of alien species
4. Promotion of vegetarianism

Select the correct answer using the codes given below:

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

27. Vultures used to be very common in Indian countryside some years ago but are rarely seen nowadays. This is attributed to:

- a) the destruction of their nesting sites by new invasive species
- b) a drug used by cattle owners for treating their diseased cattle
- c) Scarcity of food available to them
- d) a widespread, persistent and fatal disease among them

28. Consider the following pairs:

Biogeographic zone - Species

1. Desert zone Great Indian Bustard
2. Alpine zone Markhor
3. Western Ghats Swamp deer
4. North East zone Pitcher plant

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

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

29. With reference to the Genetically Modified mustard (GM mustard) developed in India, consider the following statements :

1. GM mustard has the genes of a soil bacterium that give the plant the property of pest-resistance to a wide variety of pests.
2. GM mustard has the genes that allow the plant cross-pollination and hybridization.
3. GM mustard has been developed jointly by the IARI and Punjab Agricultural University.

Which of the statements given above is/are correct ?

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

30. Consider the following statements:

1. The definition of "Critical Wildlife Habitat" is incorporated in the Forest Rights Act, 2006.
2. For the first time in India, Baigas have been given Habitat Rights.
3. Union Ministry of Environment, Forest and Climate Change officially decides and declares Habitat Rights for Primitive and Vulnerable Tribal Groups in any part of India(a)

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

31. *Gymnothorax and amanensis* and *Gymnothorax smithi* recently discovered near the coast of Odisha, are species of:

- a) Whales
- b) Crabs
- c) Marine Eels
- d) Water Snake

32. With reference to Vembanad lake, consider the following statements:

1. It is listed as a wetland site of international importance under the Ramsar Convention.
2. It is situated on the boundary of Kerala and Tamil Nadu.

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. Which of the following are part of UNESCO's World Network of Biosphere Reserves?

1. Nilgiri Biosphere Reserve
2. Manas Biosphere Reserve
3. Nokrek Biosphere Reserve
4. Kachchh Biosphere Reserve
5. Great Nicobar Biosphere Reserve

Select the correct answer using the code given below:

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

34. Consider the following statements regarding Convention on Migratory Species (CMS).

1. It is an environmental treaty of the UN that provides a global platform for the conservation and sustainable use of migratory animals and their habitats.

2. It is not the only global convention specialising in the conservation of migratory species, their habitats and migration routes.

3. It lays the legal foundation for internationally coordinated conservation measures throughout a migratory range. Which of the statements given above is/are correct?

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

35. Which of the following rivers flows through Kaziranga National Park?

1. Brahmaputra
2. Diphlu
3. Dharla
4. Mora Diphlu
5. Rangpo

Select the correct answer using the code given below:

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

36. With reference to Mangrove forests, consider the following statements:

1. They grow at tropical and subtropical latitudes.
2. Trees in mangroves have a special adaptation called 'pneumatophores'.
3. The Sundarbans Ecoregion has the largest cover of mangrove forests in India.

Which of the statements given above is/are correct?

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

37. Consider the following statements regarding 'sacred groves':

1. These patches of forest have been left untouched by the local people and any interference with them is banned.

2. They are used for Nature worship by tribal people

3. Mahua and Kadamba trees are found in sacred groves.

Which of the statements given above is/are correct?

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

38. Match the following:

List -I List -II

- | | |
|--|--|
| A. Community Forestry with agriculture | 1. Combines Forestry with agriculture |
| B. Social Forestry | 2. Farmers grow trees for commercial and non-commercial purposes |
| C. Farm Forestry | 3. Management and protection of forests on barren lands |
| D. Agro-Forestry | 4. Raising of trees on public land |

Select the correct answer using the code given below:

- | | | | | |
|-----|---|---|---|---|
| | A | B | C | D |
| (a) | 4 | 3 | 1 | 2 |
| (b) | 4 | 3 | 2 | 1 |
| (c) | 3 | 4 | 2 | 1 |
| (d) | 3 | 4 | 1 | 2 |

39. Which of the following are included in Social Forestry?

1. Urban forestry
2. Rural forestry
3. Farm forestry

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

40. Coral reef is a peculiar type of marine landform. In this context, consider the following statements:

1. Corals thrive only in the tropical and sub-tropical regions.
2. Depth of water is an important factor in reef formation.
3. Corals are best developed on seaward side of the reef.

Which of the above statements is/are incorrect?

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

41. Consider the following statements about Mangroves:

1. According to State of Forest Report, 2017, Sunderbans in West Bengal accounts for almost half of total area under mangroves in India.
2. Mangroves are found only in tropical regions of the world.

Which of the above statements is/are correct?

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

42. Amrabad Tiger Reserve, recently in news, is located in:

- (a) Andhra Pradesh
- (b) Telangana
- (c) Karnataka
- (d) Maharashtra

43. Consider the following statements:

1. The pink pages in the Red Data Book published by IUCN include the vulnerable species.
2. The IUCN has downgraded conservation status of snow leopard from endangered to vulnerable.
3. IUCN is a leading governmental authority for the conservation of animal species only.

Which of the above statements given above is/are correct?

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

44. Match the following:

Diseases	Animal Susceptible
A. Tuberculosis	1. Bats
B. Anthrax	2. Deer
C. Rabies	3. Wild pig
D. White-Nose	4. Tiger

Select the correct answer using the code given below:

A B C D

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

45. Consider the following statements:

1. Gir sanctuary holds the only wild population of Asiatic lions in the world.
2. It is listed in Schedule-I of Wildlife (Protection) Act 1972.
3. Recently a vaccine has been developed by India to directly cure the Canine Distemper Virus common amongst the big cats.

Which of the above statements are correct?

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

46. Consider the following:

1. Star tortoise
2. Monitor lizard
3. Pygmy hog
4. Lion Tailed Macaque

Which of the above species are found in India?

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

47. Consider the following statements regarding Biodiversity in India:

1. India accounts for nearly 18% of the recorded species in the world.
2. The varied Edaphic, Climatic and topographic conditions have resulted in a wide range of ecosystems and habitats in India.

Which of the above statements is/are correct?

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

48. Consider the following statements regarding Sea Grass:

1. It is a marine flowering plant.
2. It grows in deep ocean waters as it require comparatively calm area.
3. It provides habitat for marine invertebrates and fishes.

Which of the above statements is/are correct?

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

49. Which of the following statements regarding speciation is/are correct?

1. Speciation is a process within evolution that leads to the formation of new, distinct species that are reproductively isolated from one another.
2. Sympatric speciation occurs when a population of organisms becomes isolated from their main group due to geographical barriers.
3. The main mechanisms resulting in allopatric speciation involve changes in the chromosomes of the organism.

Select the correct answer using the code given below:

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

50. Match the following:

List I

List II

- | | |
|--------------------------|---|
| A. Biological Extinction | 1. Species, so few in number that it no longer plays its normal role in the community |
| B. Local Extinction | 2. Continuous process of natural and lowlevel extinction |
| C. Ecological Extinction | 3. Species no longer found anywhere on earth |
| D. Background Extinction | 4. More than 65% of all species become extinct |
| E. Mass Extinction | 5. Species no longer found in area it once inhabited |

Select the correct answer using the code given below:

- | | A | B | C | D | E |
|-----|---|---|---|---|---|
| (a) | 4 | 5 | 2 | 1 | 3 |
| (b) | 3 | 5 | 1 | 2 | 4 |
| (c) | 4 | 2 | 1 | 5 | 3 |
| (d) | 2 | 1 | 5 | 4 | 3 |

51. Which of the following statements is/are correct about ex-situ conservation?

1. Ex-situ conservation helps in commercial improvement of a species through breeding activities and supply of genetically improved reproductive material.
2. Ex-situ conservation ensures the ongoing process of evolution and adaptation within their habitats.
3. Captive breeding of animals with possible reintroduction into the wild is an example of ex-situ conservation.

Select the correct answer using the code given below:

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

52. Match the following:

List I List II

- | | |
|--------------------------------------|--|
| A. World Database
Protected Areas | 1. Convention on
Biological Diversity |
| B. Protected Planet Report | 2. UNEP & IUCN |
| C. Global Biodiversity Outlook | 3. IUCN |

Select the correct answer using the code given below:

- | | | | |
|-----|---|---|---|
| | A | B | C |
| (a) | 1 | 2 | 3 |
| (b) | 3 | 1 | 2 |
| (c) | 2 | 3 | 1 |
| (d) | 3 | 2 | 1 |

53. Some animals are physiologically and behaviorally adapted to desert conditions. Which of the following features of animals describe the same?

1. They are fast runners.
2. They are nocturnal inhabit.
3. Animals and birds usually have short legs.
4. Animals excrete concentrated urine.

Select the correct answer using the code given below:

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

54. Consider the following statements with respect to the Project Elephant:

1. It is a centrally sponsored scheme launched in 1992.
2. The Project is being implemented in all the States of India.
3. The first elephant reserve was the Singhbhum elephant Reserve of Jharkhand.

Which of the above statements is/are incorrect?

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

55. Consider the following pairs regarding provisions for animals listed in different schedules of Wildlife Protection Act, 1972:

Schedule	Provision
1. Schedule I	Absolute Protection
2. Schedule IV	Vermin (Can be hunted)
3. Schedule III	Penalties are lower compared to Schedule 1

Which of the above pairs is/are correctly matched?

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

56. Consider the following protected areas:

1. Bandipur
2. Jim Corbett
3. Manas
4. Ranthambore

Which of the above are declared tiger reserves?

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

57. Which of the following is/are protected under Schedule I of Wildlife Protection Act, 1972?

1. Kashmir Stag
2. Black Buck
3. Nilgiri Tahr
4. Nilgai

Select the correct answer using the code given below:

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

58. Which of the following statements is/are correct about Biological Diversity Act, 2002?

1. This act was brought to realize the objectives of Bonn Convention.
2. It aims at fair and equitable sharing of benefits arising out of the utilization of genetic resources.
3. This act establishes two-tier structure at National & State level only to regulate access to the biological resources.

Select the correct answer using the code given below:

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

59. Consider the following statements:

1. Bovines emit methane due to belching.
2. Livestock grazing between land and streams destabilizes stream banks.
3. Manure contains high amounts of nitrogen, phosphorous, and potassium which causes contamination of groundwater.
4. Livestock grazing leads to reseeding of natural meadows which impact native species.

Which of the above statement are correct?

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

60. Consider the following statements related to Environmental treaties:

1. The Aichi targets aim at addressing the underlying causes of biodiversity loss by mainstreaming biodiversity across government and society.
2. Nagoya Protocol aims to achieve the fair and equitable sharing of benefits arising out of the utilization of genetic resources.
3. The Cartagena Protocol on Biosafety let countries ban imports of genetically modified organisms if they feel there is not enough scientific evidence that the product is safe.

Which of the above statements are correct?

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

61. With reference to 'The United Nations Office for Disaster Risk Reduction', consider the following statements:

1. Its functions span the social, economic, environmental as well as humanitarian fields.
2. It supports the implementation, followup and review of the Sendai Framework for Disaster Risk Reduction.
3. It publishes the Global Assessment Report on Disaster Risk Reduction in collaboration with the World Bank.

Which of the above statements are correct?

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

62. Consider the following statements about Rotterdam Convention.

1. It is a multilateral treaty on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade
2. It is jointly administered by the World Health Organisation and the United Nations Environment Programme (UNEP).

Which of the above statements are correct?

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

63. Which of the following nations are included in the list of Tiger Range Countries?

1. Cambodia
2. Bangladesh
3. Russia
4. Singapore

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

64. Consider the following statements:

1. Indian Forest Act, (IFA) 1927 decides the duty leviable on forest produce.
2. Forestry comes under the concurrent list.
3. Recently an amendment to IFA, 1927 has been passed permitting officials to use arms for stopping forest offence.

Which of the above statements is/are correct?

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

65. Recently Soil Organic Carbon was in news. What is it?

- (a) Percentage of carbon emitted by fertilizer
- (b) Carbon Produced during stubble burning
- (c) Amount of carbon stored in the soil
- (d) Carbon released during organic farming

66. Consider the following statements regarding Hydrogen enriched CNG:

1. The ideal hydrogen concentration in the fuel is 80%.
2. Existing transport vehicles are not fully compatible to use this fuel.

Which of the above statements is/are correct?

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

67. Consider the following statements regarding the Gangetic River Dolphins

1. The Vikramshila Gangetic Dolphin Sanctuary is the only sanctuary for dolphins in India.
2. They have very poor eyesight and depends upon echolocation for catching prey.
3. They are found in Bhutan, Nepal and Bangladesh.

Which of the following statements are correct?

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

68. Match the following:

- | | |
|-----------------|---|
| List I | List II |
| A. Mutualism | 1. One species benefits, the other is harmed |
| B. Commensalism | 2. Both species benefit |
| C. Predation | 3. One species benefits, the other is unaffected |
| D. Amensalism | 4. One species is harmed, the other is unaffected |

Select the correct answer using the code given below:

- | | |
|-----|---------|
| | A B C D |
| (a) | 2 3 1 4 |
| (b) | 2 3 4 1 |
| (c) | 2 1 3 4 |
| (d) | 1 2 3 4 |

69. Match the following:

- | | |
|---|---------------------|
| List I (Ramsar List II Wetlands) (Location) | |
| A. Harike Lake | 1. Tripura |
| B. Renuka Wetland | 2. Himachal Pradesh |
| C. Rudrasagar Lake | 3. Punjab |

Select the correct answer from the codes given below:

- | | |
|-----|-------|
| | A B C |
| (a) | 3 1 2 |
| (b) | 3 2 1 |
| (c) | 2 1 3 |
| (d) | 1 3 2 |

70. Consider the following statements regarding Methane Hydrate:

1. It is a crystalline compound with water molecules surrounded by methane molecules.
2. The deposits of Methane Hydrate have been found majorly in the Arctic and Antarctica regions.
3. They can be found in the igneous rocks below Arctic Permafrost.

Which of the above statements is/are correct?

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

71. Consider the following statements regarding Waste to Energy Technologies:

1. The process of gasification releases carbon dioxide and water.
2. Plasma gasification used for treating municipal waste
3. Pyrolysis is an exothermic process.

Which of the above statements is/are correct?

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

72. Which of the following statements is incorrect regarding variation in biodiversity?

- (a) Terrestrial biodiversity is higher near the equator than poles.
- (b) Exogenic processes play no role in influencing biodiversity.
- (c) The polar region has a large number of fewer species.
- (d) The more the variety of species in an ecosystem, the more stable the ecosystem is.

73. Which of the following can act as a threat to biodiversity on Earth?

1. Droughts
2. Invasive Species
3. Use of pesticides in agriculture
4. Land use Change

Select the correct answer using the code given below:

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

74. According to the India State of Forest Report, 2017, which of the following states has the largest forest cover in India?

- (a) Arunachal Pradesh
- (b) Lakshadweep
- (c) Madhya Pradesh
- (d) Mizoram

75. Which of the following are the reasons for decline in Wildlife?

1. Grazing by domestic cattle
2. Habitat destruction
3. Forest Fires
4. Industrial and Technological Advancement

Select the correct answer using the code given below:

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

76. Consider the following statements regarding the recent deaths of migratory birds in Sambhar Lake due to Botulism:

1. Botulism is a serious bacterial neuromuscular illness that occurs only in birds.
2. Sambhar Lake is India's largest inland saltwater lake.

Which of the above statements is/are correct?

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

77. The term "closed fuel cycle" is an initiative related to:

- (a) The technology being used in hybrid vehicles to stop the combustion of conventional fuels.
- (b) The technology being used in the Nuclear power plant.
- (c) The Neutrino observatory uses this technology.
- (d) This process is used in supercritical steam generator power plants.

78. Consider the following statements regarding Basel convention:

1. The convention creates legally binding obligations for the implementation of the Prior Informed Consent (PIC) procedure.
2. E-waste and plastic waste are outside the preview of this convention.

Which of the statements given above is/are correct?

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

79. Consider the following statement regarding Glyphosate:

1. Glyphosate is a herbicide that kills every plant it's applied on, except on crops genetically modified (GM) to withstand it.
2. Anupam Verma committee recommended glyphosate to be banned in India.
3. In India, according to the Pesticides Act 1968, only the Centre can ban a pesticide.

Which of the above statement are correct?

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

80. With reference to the RAMSAR Convention on the wetland, consider the following statement.

1. It was adopted in the Iranian city of RAMSAR in 1971 and came into force in 1975.
2. It is affiliated with the United Nations system of multilateral environmental agreement.
3. 2 February every year is celebrated as World Wetland Day.

Which of the above statement is/are incorrect?

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

81. Which of the following is/are objectives of the Convention on Biological Diversity (CBD)?

1. The conservation of biological diversity.
2. The sustainable use of the components of biological diversity.
3. The fair and equitable sharing of natural resources.

Which of the above statements is/are incorrect?

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

82. Consider the following statements regarding the Protection of Plant Varieties and Farmers' Rights (PPV&FR) Act:

1. Under this act, a farmer who has evolved or developed a new variety is entitled to registration and protection in like manner as a breeder of a variety.
2. It recognizes the contributions of farmers in plant breeding activity but not of commercial plant breeders.

Which of the above statements is/are correct?

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

83. Consider the following statements regarding wetlands in India:

1. Keoladeo National Park, Loktak Lake and Chilka lake are the three wetlands which have been placed in the Montreux record.
2. There are currently 27 wetlands which have been listed as Ramsar sites in India.

Which of the above statements is/are correct?

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

84. With reference to Coalition for Disaster Resilient Infrastructure (CDRI), Consider the following statements:

1. It is launched by Prime Minister of India in the United Nations General assembly in 2019.
2. It is an agency that will finance funds to natural disaster-hit countries.

Which of the statements is/are correct?

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

85. Which of the following statements highlight the differences between National Parks and Wildlife Sanctuaries in India?

1. While wildlife sanctuaries are notified by state governments, national parks are notified by central government.
2. National Parks enjoy a greater degree of protection than wildlife sanctuaries.
3. National Parks is created for a particular species but a wildlife sanctuary does not focus on a particular species.

Select the correct answer using the code given below:

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

86. With reference to Critical Wildlife Habitats (CWHs), consider the following statements:

1. CWHs are defined under the Wildlife Protection Act, 1972.
2. The guidelines for notification of CWHs apply only to the National Parks and Sanctuaries and not to other forest areas.
3. The power to declare an area as CWH vests with the central government only.

Which of the above statements is/are correct?

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

87. Consider the following statements regarding the forest cover in India:

1. Peninsular Plateau has the highest forest cover in India followed by Himalayan region.
2. West Bengal has highest Mangrove Forest Cover according to Indian state of Forest report, 2019.
3. Tropical dry deciduous forest has the highest presence in the Indian mainland.

Which of the above statements is/are incorrect?

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

88. Consider the following statements regarding phosphorous cycle:

1. A phosphorous cycle is an example of a sedimentary cycle.
2. Phosphorous is mainly found as phosphates in the earth's crust.
3. Tectonic upliftment and denudation are the main processes responsible for the phosphorus cycle.

Which of the above statements is/are correct?

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

89. With reference to protected area network in India, consider the following statements:

1. Conservation reserves are government owned whereas community reserves are privately owned.
2. Conservation Reserves and Community Reserves were first introduced in the Wildlife Protection Act, 1972.
3. Marine Protected Area is a space in ocean similar to parks on land.

Which of the above statements are correct?

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

90. Species which is not the natural inhabitants of a local habitat, but is introduced in the system is known as?

- a) Endangered species
- b) Vulnerable species
- c) Exotic species
- d) Rare species

91. A series of protected areas linked through a global network, intended to demonstrate the relationship between conservation and development are known as?

- a) Biosphere reserves
- b) National Park
- c) Wildlife Sanctuary
- d) Community Reserve

92. "Species diversity" refers to?
- The variation of genes within species.
 - Number of species in a defined area.
 - The diversity of habitats and ecological processes occurring within each ecosystem type.
 - The number and variety of organisms found within a specified geographic region.

93. Which of the following statements come under the 'scientific role of biodiversity'?

- Biodiversity helps in understanding how life functions and the role of each species in sustaining ecosystems of which we are also a species.
- Biodiversity includes species capturing and storing energy, producing and decomposing organic materials, helping to cycle water and nutrients throughout the ecosystem.
- Biodiversity is seen as a reservoir of resources to be drawn upon for the manufacture of food, pharmaceutical, and cosmetic products.

Select the correct answer using the code given below:

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

94. In the context of "Distribution of Biodiversity", consider the following statements:

- Biodiversity is found unevenly on earth.
- Biodiversity is richer in tropics.
- Polar regions have larger and larger populations of fewer and fewer species.

Which of the statements given above is/ are correct?

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

95. Consider the following statement regarding the 'Cheetah Reintroduction Project' in India:

- National Tiger Conservation Authority (NTCA) is the nodal agency for the Cheetah Reintroduction Project.
 - The 'Cheetah Reintroduction project' is to be implemented in Nauradehi Wildlife Sanctuary.
- Which of the statements given above

is/are correct?

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

96. Which of the following Biosphere reserves are arranged from South to North?

- Nanda Devi, Panna, Nokrek, Seshachalam
- Panna, Nokrek, Seshachalam, Nanda Devi
- Seshachalam, Panna, Nokrek, Nanda Devi
- Seshachalam, Panna, Nanda Devi, Nokrek

97. "It is one of UNESCO's designated biosphere reserves. The entire Biosphere Reserve is hilly. It has the remnant population of red panda and also is an important habitat of the Asian elephant. The mother germplasm of Citrus indica (locally known as Memang Narang) has been discovered by science researchers within this reserve." Identify the above-mentioned reserve?

- Similipal Biosphere Reserve
- Nokrek Biosphere Reserve
- Agasthyamalai Biosphere Reserve
- Great Nicobar Biosphere Reserve

98. Which of the following best describe the Himalayan Yew?

- A Himalayan sheep bred for its wool.
- A Himalayan deer.
- A Himalayan fruit.
- A Himalayan medicinal plant.

99. Consider the following statements:

1. India has neither signed the Non-Proliferation of Nuclear Weapons Treaty nor ratified it.
2. India has signed the Comprehensive Nuclear- Test-Ban Treaty (CTBT) but has not yet ratified it.

Which of the statements given above is/are correct?

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

100. Consider the following statements:

1. Ethanol can be obtained from bagasse, a by- product of the sugar industry.
2. Government discourages sugarcane based ethanol industry, as it can lead to overproduction of sugarcane.

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