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# **TSPSC Forest Range Officers (FRO)**

**Previous Year Paper  
2017 Environmental  
Science**



## ENVIRONMENTAL SCIENCE PAPER - IV

1. The Narmada Sagar Project is located in \_\_\_\_\_

- (1) Orissa
- (2) Madhya Pradesh
- (3) Gujarat
- (4) Rajasthan

2. The greenhouse effect of increasing level of greenhouse gases in the atmosphere is known as \_\_\_\_\_

- (1) Biomagnifications
- (2) Biodegradation
- (3) Glaciations
- (4) Global warming

3. Match the following :

A. Red Sea	1. Algal blooms
B. Red Tides	2. <i>Pseudomonas</i>
C. Eutrophication	3. <i>Trichodesmium</i>
D. Superbugs	4. <i>Gonyaulax</i>

Choose the correct matching :

- (1) A-3, B-1, C-4, D-2
- (2) A-3, B-4, C-1, D-2
- (3) A-4, B-2, C-1, D-3
- (4) A-2, B-3, C-4, D-1

4. Arrange the following greenhouse gases, according to their global warming potentiality with decreasing order :

A. $\text{CO}_2$	B. $\text{N}_2\text{O}$
C. $\text{CH}_4$	D. CFCs
(1) C, B, A, D.	(2) D, B, C, A
(3) B, A, D, C	(4) A, D, B, C

5. Which of the following activity is contributing more percentage in global warming ?

- (1) Energy sector
- (2) Agricultural sector
- (3) Chlorofluorocarbons
- (4) Land use modifications

6. Match the following :

A. Water Act	1. 1972
B. Forest Conservation Act	2. 1986
C. Wildlife Protection Act	3. 1980
D. Environment Protection Act	4. 1974

Choose the correct matching :

- (1) A-4, B-3, C-1, D-2
- (2) A-3, B-2, C-4, D-1
- (3) A-3, B-1, C-2, D-4
- (4) A-1, B-3, C-2, D-4

7. Which of the following releases less carbon dioxide during combustion ?

- (1) Oil
- (2) Gas
- (3) Wood
- (4) Coal

8. Match the following :

A. Itai-Itai disease	1. Pathogenic
B. Minamata disease	2. Nitrates
C. Biomedical waste	3. Cadmium
D. Blue baby syndrome	4. Mercury

Choose the correct matching :

- (1) A-4, B-3, C-2, D-1
- (2) A-3, B-4, C-1, D-2
- (3) A-3, B-2, C-4, D-1
- (4) A-2, B-1, C-3, D-4

9. Where was first UNO organised a conference on Human environment in 1972 ?

- (1) New York
- (2) Stockholm
- (3) London
- (4) Melbourne

10. Consider the following statements :

- A. Dams can help in checking floods and famines.
- B. Dams cannot provide irrigation and drinking water.
- C. Dams are breeding of vectors and spread of vector-borne diseases.

Choose the correct statements :

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B and C



11. Matter and energy in an ecosystem are transferred respectively in which manner?

(1) Cyclic and unidirectional  
 (2) Unidirectional only  
 (3) Bidirectional only  
 (4) Acyclic

12. Which of the following is a critical limiting factor in aquatic ecosystems but not in terrestrial ecosystems?

(1) Oxygen  
 (2) Temperature  
 (3) Light  
 (4) Carbon dioxide

13. The land area necessary to supply natural resources to a community and disposal of its waste is known as \_\_\_\_\_.

(1) Ecological ground  
 (2) Ecological segment  
 (3) Ecological footprint  
 (4) Ecological pyramid

14. The climate pattern that occurs across the Pacific ocean for every five years is called as \_\_\_\_\_.

(1) The EL Nino/La-Nina-Southern Oscillation (ENSO)  
 (2) The EL Nino/La-Nina-Northern Oscillation (ENNO)  
 (3) The EL Nino/La-Nina-Eastern Oscillation (ENEO)  
 (4) The EL Nino/La-Nina-Western Oscillation (ENWO)

15. In which of the following continents heat wave killed more than 35000 people in 2003?

(1) Asia  
 (2) Europe  
 (3) America  
 (4) Australia

16. What is the newly emerged disease during the last few decades?

(1) Plague  
 (2) Cholera  
 (3) AIDS  
 (4) Cancer

17. How the disease Tuberculosis will spread from person to person?

(1) Through water  
 (2) Heredity  
 (3) Through food  
 (4) Through air

18. Match the following:

A. Fermentation	1. Organic manure
B. Pyrolysis	2. Biogas
C. Vermicomposting	3. Industrial alcohol
D. Biomethanisation	4. Producer gas

Choose the correct matching:

(1) A-4, B-3, C-2, D-1  
 (2) A-3, B-1, C-2, D-4  
 (3) A-3, B-4, C-1, D-2  
 (4) A-2, B-4, C-3, D-1

19. Western Ghats are very rich in endemic species of \_\_\_\_\_.

(1) Birds  
 (2) Lions  
 (3) Amphibians  
 (4) Turtles

20. Human papilloma virus infection causes cancer in which part?

(1) Lungs  
 (2) Stomach  
 (3) Cervix  
 (4) Blood

21. The new thinking on environmental concerns, protecting nature and the wilderness for its own sake is referred to as \_\_\_\_\_.

(1) Peoples ecology  
 (2) Depth ecology  
 (3) Aerial ecology  
 (4) Deep ecology

22. As per WHO (2009) 40% of children coming to health centres are suffering with \_\_\_\_\_.

(1) Measles  
 (2) Pneumonia  
 (3) Polio  
 (4) Tetanus

23. Which of the following software is useful in environmental studies?

(1) Tally  
 (2) Forms Rec  
 (3) Geographic Information Systems  
 (4) Zoho books

24. Salmonellosis is a symptomatic infection transmitted through \_\_\_\_\_.  
(1) Water (2) Air  
(3) Food (4) Heredity

25. Match the following :

A. Wet scrubbers 1. Biodegradable  
B. Trickling filters 2. Burning at high temperature  
C. Composting 3. Water pollution  
D. Incineration 4. Air pollution

Choose the correct matching :

(1) A-3, B-4, C-2, D-1  
(2) A-4, B-3, C-1, D-2  
(3) A-2, B-4, C-1, D-3  
(4) A-1, B-2, C-4, D-3

26. The United Nations drafted the first ever 'Declaration of Human Rights and Environment' on  
(1) May 16, 1994  
(2) December 10, 1948  
(3) May 18, 1978  
(4) June 5, 1985

27. Among the following which is not a pollinator ?  
(1) Vulture (2) Butterflies  
(3) Moths (4) Beetles

28. Match the following :  
A. Sunderbans 1. Kerala  
B. Pichavaram 2. Andhra Pradesh  
C. Silent Valley 3. Tamil Nadu  
D. Koringa 4. West Bengal

Choose the correct matching :

(1) A-3, B-4, C-2, D-1  
(2) A-4, B-2, C-1, D-3  
(3) A-4, B-3, C-1, D-2  
(4) A-2, B-1, C-4, D-3

29. Which articles of Constitution recognises environmental protection as one of the fundamental duties of every citizen of India ?  
(1) 42 (2) 48 A  
(3) 51 A(g) (4) 52

30. In which year first India passed the Biodiversity Act ?  
(1) 2001 (2) 2010  
(3) 2002 (4) 2012

31. The World summit on children held on  
(1) September 30, 1990  
(2) September 20, 1959  
(3) November 20, 1987  
(4) March 16, 1992

32. Consider the following statements :

A. Malaria and diarrhoea are the world's two biggest killer diseases of childhood.  
B. These diseases cannot be prevented through better environmental management.  
C. Disease causing organisms pose greater environmental threats to health.

Choose the correct statements :

(1) A and B only (2) A and C only  
(3) B and C only (4) A, B and C

33. The darker zone in lakes, where light penetration is negligible is called :  
(1) Littoral zone  
(2) Limnetic zone  
(3) Euphotic zone  
(4) Profundal zone

34. The famous female social activist, Medha Patkar is associated with \_\_\_\_\_.  
(1) Chipko Movement  
(2) Narmada Bachao Andolan  
(3) Swadeshi Movement  
(4) Quit India Movement

35. Consider the following statements :

- A. Water is a universal solvent.
- B. Water has a high latent heat of evaporation.
- C. Water has low surface tension which keeps water molecules bound together.

Choose the correct statement from the above :

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B and C

36. Why earth is called the blue Planet ?

- (1) Because of Scattering in the atmosphere
- (2) Because of pollution
- (3) Because of the presence of Water
- (4) Because of the presence of Moon

37. Among the following which layer maintains the heat balance of the earth ?

- (1) Atmosphere
- (2) Hydrosphere
- (3) Lithosphere
- (4) Biosphere

38. Arrange the following atmospheric layers into correct sequence (low to upper zone) :

- A. Ionosphere
- B. Mesosphere
- C. Stratosphere
- D. Troposphere

- (1) D, B, A, C
- (2) D, C, B, A
- (3) D, C, A, B
- (4) C, D, B, A

39. The chemical oxygen demand of an affluent water is usually

- (1) Equal to its BOD
- (2) Lower than its BOD
- (3) Independent of its BOD
- (4) Higher than its BOD

40. The study of relation of organisms to their surroundings is called

- (1) Mycology
- (2) Ecology
- (3) Biology
- (4) Geology

41. Peeling of thin layers of soil from the land surface accomplished primarily by wind and water is known as

- (1) Rill erosion
- (2) Gully erosion
- (3) Sheet erosion
- (4) Wind erosion

42. The process involved in the creation of the earth materials is known as

- (1) Nitrogen cycle
- (2) Carbon cycle
- (3) Hydrological cycle
- (4) Geological cycle

43. The functional and well organised and structured unit comprising biotic and abiotic components is called as

- (1) Ecomorphology
- (2) Geomorphology
- (3) Ecosystem
- (4) Eco-unit

44. Among the following which is a renewable resources ?

- (1) Groundwater
- (2) Petrol
- (3) Natural gas
- (4) Coal

45. The term used for the sustainable use of resources

- (1) Preservation
- (2) Conservation
- (3) Salvation
- (4) Utilization

46. Clear water and low biological productivity indicates

- (1) Oligotrophic
- (2) Mesotrophic
- (3) Dystrophic
- (4) Hypertrophic

47. Among the following which state is having more forest area ?

- (1) Madhya Pradesh
- (2) Arunachal Pradesh
- (3) Karnataka
- (4) Tamil Nadu

48. In India the tropical rain forests are found in \_\_\_\_\_.

- (1) Delhi
- (2) Chandigarh
- (3) Haryana
- (4) Andaman

49. Which of the following rivers are having more available surface water?  
(1) Krishna      (2) Godavari  
(3) Ganga      (4) Mahanadi

50. The restoration of disturbed land to an ecologically stable condition is termed as  
(1) Regeneration      (2) Reclamation  
(3) Recycling      (4) Rejuvenation

51. An area of land and water bounded by a drainage divide is called as  
(1) Topography      (2) Geography  
(3) Watershed      (4) Water harvesting

52. Among the following crops, which requires more water?  
(1) Maize      (2) Sorghum  
(3) Redgram      (4) Rice

53. Among the following sub-divisions of India, where the probability of drought is more?  
(1) West Rajasthan      (2) Vidarbha  
(3) Rayalseema      (4) Telangana

54. Among the following, which is the adverse effect of dams?  
(1) Irrigation  
(2) Water logging  
(3) Flood control  
(4) Recreation

55. Consider the following statements:  
A. Sanitary land filling of solid waste does not cause health hazards.  
B. Recycling of waste helps in conservation of natural resources.  
C. Sanitary land filling of solid waste does not cause pollution of ground and surface water.

Choose the correct statements from the above:  
(1) A and C only  
(2) B and C only  
(3) A and B only  
(4) A, B and C

56. Among the following who is associated with Chipko movement?  
(1) Sunderlal Bahuguna  
(2) Arundhati Ray  
(3) Vandana Shiva  
(4) Medha Patkar

57. The process of vaporisation of water through the tissues of plants is known as  
(1) Precipitation      (2) Evaporation  
(3) Hydration      (4) Transpiration

58. Among the following, which is an iron bearing mineral?  
(1) Hematite      (2) Biotite  
(3) Calcite      (4) Olivine

59. Methane is the source of accidents in the  
(1) Mining of Asbestos  
(2) Mining of copper  
(3) Mining of coal  
(4) Mining of gold

60. Match the following:  
A. Photochemical      1. Chlorofluoro-smog  
B. Secondary air      2. Methane pollutant  
C. Ozone depletion      3. Peroxyacetyl nitrate  
D. Green house gas      4. Sulphuric acid  
Choose the correct matching:  
(1) A-3, B-1, C-2, D-4  
(2) A-4, B-3, C-2, D-1  
(3) A-3, B-4, C-1, D-2  
(4) A-2, B-1, C-4, D-3

61. Application of high yielding varieties of seeds is part of \_\_\_\_\_.  
(1) Blue revolution  
(2) White revolution  
(3) Pink revolution  
(4) Green revolution

62. Energy-rich substances that have formed from long buried organisms are known as  
(1) Atomic fuels (2) Fossil fuels  
(3) Geomass (4) Biomass

63. The source material for Gobar gas is  
(1) Chemical waste (2) Animal waste  
(3) Nuclear waste (4) Mining waste

64. The term desertification was coined by  
(1) Aubreville (2) Madlicort  
(3) Robert Smith (4) Maxwell

65. Consider the following statements :  
A. According to plate tectonic theory, the crust of the earth is composed of solid and moving plates. ✓  
B. The rate of plate movement is around a millimetre per year but strain builds up for decades. ✓  
C. Scientists measure the waves through calorimeter to get information about earthquake.  
Choose the correct statements from the above :

(1) A and B only ✓  
(2) A and C only  
(3) B and C only  
(4) A, B and C

66. Match the following :  
A. Montreal Protocol 1. 1992  
B. Kyoto Protocol 2. 1972  
C. The Earth Summit 3. 1987  
D. Stockholm Conference 4. 1997  
Choose the correct matching :  
(1) A-4, B-2, C-3, D-1  
(2) A-3, B-4, C-1, D-2  
(3) A-2, B-1, C-4, D-3  
(4) A-1, B-3, C-2, D-4

67. The organisms, which can synthesise their own food are called \_\_\_\_\_.  
(1) Autophytes  
(2) Autotrophs  
(3) Heterotrophs  
(4) Cosmophytes

68. Consider the following statements :  
A. The main role of forests in nature is to maintain gaseous balance. ✓  
B. Forests absorb many toxic gases and help in keeping the air pure and fresh. ✓  
C. The above two statements are productive functions of the forest.  
Choose the correct statement from the above :  
(1) A and C only  
(2) B and C only  
(3) A and B only  
(4) A, B and C

69. The organisms, which can eat whatever they get are known as \_\_\_\_\_.  
(1) Omnivores (2) Herbivores  
(3) Carnivores (4) Decomposers

70. Among the following which is a decomposer ?  
(1) Lichen (2) Virus  
(3) Algae (4) Bacteria

71. Match the following :  
A. Metallic mineral 1. Potassium  
B. Non-metallic mineral 2. Ethanol  
C. Bituminous 3. Magnesium  
D. Biomass 4. Coal  
Choose the correct matching :  
(1) A-3, B-4, C-1, D-2  
(2) A-4, B-3, C-2, D-1  
(3) A-3, B-1, C-4, D-2  
(4) A-2, B-1, C-4, D-3

72. What is the term used for very large terrestrial ecosystem ?  
(1) Geomes (2) Meomes  
(3) Biome (4) Bioherm

73. The material consisting largely of protozoa, bacteria and zoogaea when mixed with aerated sewage, break down the organic matter. It is known as

- (1) Sludge
- (2) Activated sludge
- ~~(3) Active factor~~
- (4) Activated carbon

74. The headquarters of World Wide Fund for nature (WWF-I) in India is \_\_\_\_\_.

- (1) Hyderabad
- (2) Chennai
- ~~(3) New Delhi~~
- (4) Mumbai

75. Who is the author of the book "Diversity of Life" published in 1993 ?

- (1) Salim Ali
- (2) E.O. Wilson
- (3) Henry
- (4) Aldo Leopold

76. When is earth originated ?

- (1) 4.6 Billion years ago
- ~~(2) 4.6 Million years ago~~
- (3) 46 Billion years ago
- (4) 3.2 Billion years ago

77. What is the predominant commercial energy source in India ?

- (1) Hydro
- (2) Nuclear
- ~~(3) Oil~~
- (4) Coal

78. The source for the waste material called Fly ash is \_\_\_\_\_.

- (1) Nuclear plants
- ~~(2) Thermal power~~
- (3) Vehicles
- (4) Cement industry

79. What is the element used in photovoltaic cells ?

- (1) Selenium
- (2) Silicon
- ~~(3) Lithium~~
- (4) Rubidium

80. Who is the father of Nuclear power in India ?

- (1) Vikram Sarabhai
- (2) Raja Rammanna
- (3) Abdul Kalam
- ~~(4) Homi Bhabha~~

81. What is the source for geothermal energy ?

- (1) Coal
- (2) Petrol
- (3) Solar Radiation
- ~~(4) Magma~~

82. Which of the following is the building block of both plant and animal tissues ?

- (1) Iron
- ~~(2) Carbon~~
- (3) Nitrogen
- ~~(4) Boron~~

83. Photosynthesis plays important role in \_\_\_\_\_.

- (1) Hydrological Cycle
- (2) Geological cycle
- ~~(3) Carbon cycle~~
- (4) Nitrogen cycle

84. The transitional zone between two or more diverse communities are called as

- ~~(1) Ecotone~~
- (2) Ecotype
- (3) Ecad
- (4) Ecosphere

85. What is the temperature condition in Coniferous forests ?

- ~~(1) Low~~
- (2) Medium
- (3) High
- (4) No relation

86. Among the following which animal is specific to mangrove delta forests ?

- (1) Black Beer
- ~~(2) Tiger~~
- (3) Sandpiper
- (4) Sambar

87. Which type of ecosystem consists of Terai variety ?

- (1) Desert
- ~~(2) Pond~~
- (3) Forest
- ~~(4) Grassland~~

88. The tree varieties Kher and Babul belongs to \_\_\_\_\_.

- (1) Aquatic ecosystem
- ~~(2) Desert ecosystem~~
- (3) Marine ecosystem
- (4) Pond ecosystem

89. Eutrophication in the lakes is due to

- ~~(1) Sewage~~
- (2) Pesticides
- (3) Thermal waste
- ~~(4) Hazardous waste~~

90

The study of the biosphere and of human effects on plant and animals is known as

- (1) Biomorphology
- (2) Paleoecology
- (3) Biogeography
- (4) Paleogeography

91. What is the youngest and loftiest mountain chain of the world ?

- (1) Andes
- (2) Alps
- (3) Nilgiris
- (4) Himalayas

92.

Gulf of Canbary is located in which of the following regions ?

- (1) East coast
- (2) West coast
- (3) South coast
- (4) Andaman coast

93.

Match the following :

A. Producers	1. Pond
B. Decomposers	2. Nitrasomonas
C. Littoral zone	3. Phytoplankton
D. Nitrification	4. Microconsumers

Choose the correct matching :

- (1) A-4, B-3, C-1, D-2
- (2) A-3, B-2, C-4, D-1
- (3) A-3, B-4, C-1, D-2
- (4) A-2, B-1, C-4, D-3

94.

Match the following :

A. Charles Elton	1. Ecosystem
B. Lindeman	2. Monoclimax theory
C. A.G. Tansley	3. Ecological pyramids
D. E. Clement	4. Energy flow

Choose the correct matching :

- (1) A-3, B-4, C-1, D-2
- (2) A-3, B-2, C-4, D-1
- (3) A-4, B-3, C-2, D-1
- (4) A-2, B-1, C-3, D-4

95.

In which of the following states Kaziranga National park is situated ?

- (1) Assam
- (2) Chhattisgarh
- (3) West Bengal
- (4) Uttarakhand

96. If the species are abundant but are declining in total numbers, such category is called

- (1) Critically endangered
- (2) Threatened species
- (3) Rare species
- (4) Extinct species

97. Bandipur reserve in Karnataka is a/an

- (1) Lion reserve
- (2) Deer reserve
- (3) Elephant reserve
- (4) Tiger reserve

98.

Pachmarhi biosphere reserve is located in the state of

- (1) Madhya Pradesh
- (2) Maharashtra
- (3) Gujarat
- (4) Orissa

99.

Choose the correct statement from the following food chain :

- (1) Grass - Frog - Hawk - Snake
- (2) Grass - Grosshopper - Frog - Snake - Hawk
- (3) Grass - Grosshopper - Snake - Frog
- (4) Grass - Snake - Frog - Hawk

100.

Consider the following statements :

- A. In grassland ecosystem the pyramid of energy is upright.
- B. In pond ecosystem the biomass of energy is inverted.
- C. In food chain the primary consumers are always carnivores.

Choose the correct statements :

- (1) A and C only
- (2) B and C only
- (3) A and B only
- (4) A, B and C

101.

The drug Morphine is extracted from a plant called

- (1) Cinchona
- (2) Opium poppy
- (3) Velvet bean
- (4) Wild yams

102. Which of the following National Park is located in the state of Kerala ?

(1) Silent valley (2) Mudumalai  
(3) Gir (4) Pench

103. The habitat of Olive Ridley Turtles are

(1) Kerala coast (2) Orissa coast  
(3) Gujarat coast (4) Konkan coast

104. The Beej Bachao Andolan (Save the seed movement) was started in \_\_\_\_\_.

(1) Shimla (2) Kullu  
(3) Manali (4) Garhwal

105. Match the following :

A. Stragglers 1. Producers  
B. True estuarine forms 2. Salmon  
C. Benthic algae 3. Carcinus  
D. Migratory forms 4. Oysters

Choose the correct matching :

(1) A-3, B-2, C-1, D-4  
(2) A-3, B-4, C-1, D-2  
(3) A-4, B-3, C-2, D-1  
(4) A-2, B-1, C-4, D-3

106. How many biogeographic zones are identified in India ?

(1) 6 (2) 8  
(3) 10 (4) 12

107. Which of the following plant is migrated into India ?

(1) Parthenium (2) Quercus  
(3) Gooseberry (4) Zizyphus

108. Consider the following statements :

A. Succession is an orderly process of change. ✓  
B. Succession is physical environment based biological process. ✓  
C. Climax community maintains dynamic equilibrium with environment. ✓

Choose the correct statements :

(1) A and C only  
(2) B and C only  
(3) A, B and C  
(4) A and B only

109. Among the following animals, which is the source for perfume extraction ?

(1) Sambar (2) Wild ass  
(3) Musk deer (4) Dhole

110. Among the following which is a degradable pollutant ?

(1) Nuclear waste  
(2) Plastic waste  
(3) Sewage waste  
(4) Inorganic waste

111. When was the major disaster "London Smog" occurred ?

(1) 1952 (2) 1953  
(3) 1954 (4) 1955

112. What is the name of the gas released during Bhopal tragedy ?

(1) Mesocyanide  
(2) Isocyanide  
(3) Chlorocyanide  
(4) Octocyanide

113. Arrange the plant communities of different stages in Xerosere in correct sequence :

A. Foliose lichen stage  
B. Crustose lichen stage  
C. Herbs stage  
D. Moss stage  
E. Shrub stage  
F. Forest stage ~~water~~

Choose the correct option :

(1) B, A, D, C, E, F  
(2) A, C, D, B, F, E  
(3) B, C, E, D, F, A  
(4) A, C, B, F, E, D

114. Among the following, which is a natural source for air pollution ?

(1) Vehicles (2) Thermal Power  
(3) Volcano (4) Pesticides

115. Match the following :

A. Biodiversity	1. R.T. Paine
B. Hot spots	2. Mittermeir & Werner
C. Keystone species	3. Norman Myer
D. Megadiversity	4. E.O. Wilson centres

Choose the correct matching :

(1) A-3, B-2, C-4, D-1  
(2) A-4, B-1, C-2, D-3  
(3) A-4, B-3, C-1, D-2  
(4) A-2, B-3, C-1, D-4

116. Among the following, which is a suspended particulate matter (SPM) ?

(1) Carbon monoxide  
(2) Hydrocarbons  
(3) Aerosol  
(4) Sulphur oxide

117. Which of the following element is released by vehicles ?

(1) Rubidium (2) Thorium  
(3) Uranium (4) Lead

118. The disease called Influenza is mainly transmitted through

(1) Air (2) Water  
(3) Soil (4) Flowers

119. When India signed the Montreal Protocol ?

(1) 1995 (2) 1992  
(3) 2004 (4) 2005

120. If the sea level rises by 3 m, which of the following will disappear ?

(1) Bangladesh (2) Sri Lanka  
(3) Maldives (4) Andaman

121. The great monument Taj Mahal is effected by Marble Cancer because of

(1) Exposure to Nitrogen  
(2) Exposure to Carbon dioxide  
(3) Exposure to Calcium oxide  
(4) Exposure to Sulphur dioxide

122. What is the ambient air quality level in the industrial area for  $\text{NO}_2$  as per annual time weight average ?

(1) 100 (2) 80  
(3) 60 (4) 40

123. What is the term used for the porous, water saturated layer through which groundwater flows ?

(1) Aquifuge (2) Aquifer  
(3) Aquitard (4) Aquiline

124. Among the following which is the example for non-point source of pollution ?

(1) Acid rain (2) Factories  
(3) Power plants (4) Oil-well

125. Which of the following Vitamins is produced with the help of Escherichia coli in human intestine ?

(1) Vitamin C (2) Vitamin D  
(3) Vitamin K (4) Vitamin E

126. The process of entering Pesticides into the food chain is known as

(1) Bio-accumulation  
(2) Geo-accumulation  
(3) Bio-occulation  
(4) Bio-conservation

127. In which of the Indian states Arsenic in groundwater is a problem ?

(1) Uttar Pradesh  
(2) Tamil Nadu  
(3) Haryana  
(4) West Bengal

128. Match the following :

A. Vinblastin	1. <i>Ficus religiosa</i>
B. Aspirin	2. Extinct
C. Religious value	3. <i>Vinca rosea</i>
D. Dodo	4. Willow bark

Choose the correct matching :

(1) A-4, B-3, C-2, D-1  
(2) A-3, B-4, C-1, D-2  
(3) A-2, B-1, C-3, D-4  
(4) A-1, B-3, C-4

129. Which of the following process is used in the secondary treatment for the removal of BOD?

(1) Screening (2) Grit removal  
(3) Trickling filter (4) Chlorination ✓

130. Consider the following statements :

A. Trans-Himalayan zone possess the richest wild sheep and goat community. ✓  
B. The gangetic plain is the most fertile region due to alluvial soils. ✓  
C. The North-east India is the richest floristic region in the country. ✓  
D. Deccan peninsula has the least extensive coverage of the land mass.

Choose the correct statements :

(1) A and C only  
(2) A, B and D only  
(3) A, B and C only  
(4) B, C and D only

131. Chernobyl nuclear disaster occurred in

(1) USSR (2) USA  
(3) UK (4) France

132. The process of burning of municipal solid waste is called

(1) Calcinations (2) Incineration  
(3) Oxidation (4) Reduction

133. Among the following, which is not a hazardous waste?

(1) Farm waste  
(2) Radioactive waste  
(3) Infectious waste  
(4) Reactive waste

134. Match the following :

A. Snow leopard	1. Antlers
B. Quails	2. Tusk
C. Black buck	3. Fur
D. Asian elephant	4. Meat

Choose the correct matching :

(1) A-2, B-1, C-4, D-3  
(2) A-3, B-4, C-1, D-2  
(3) A-3, B-2, C-1, D-4  
(4) A-2, B-3, C-4, D-1

135. What is the duration of time required for vermicomposting?

(1) About 30 days  
(2) About 45 days  
(3) About 60 days  
(4) About 15 days

136. The name of the giant sea wave is called Tsunami. The word Tsunami is originated from \_\_\_\_\_.

(1) Indonesia (2) Japan  
(3) Latin (4) Fuji

137. Consider the following statements :

A. Keoladeo National Park is home for resident and migratory birds. ✓  
B. Bandipur National Park is meant for Tiger, Leopard and Elephants. ✓  
C. Gir National Park meant for Lion, Spotted deer and Wild boar. ✓

Choose the correct statements :

(1) A and B only  
(2) A, B and C  
(3) B and C only  
(4) A and C only

138. Which of the following element in water will cause the disease called Alzheimer's?

(1) Excess Aluminium  
(2) Excess Cadmium  
(3) Excess Calcium ✓  
(4) Excess Nitrogen

139. Which one of the following is a water borne disease?

(1) Tumour (2) Cancer  
(3) Epilepsy (4) Hepatitis

140. Pani Panchayats to conserve water were first held in which states of India?

(1) Rajasthan  
(2) Maharashtra  
(3) Gujarat  
(4) Madhya Pradesh

141. A stone embankment built on a hill slope to help create a level field of cultivation is called \_\_\_\_\_.  
 (1) Medhbandi (2) Hembar  
 (3) Chak (4) Talab

142. Consider the following statements :  
 A. Nanda Devi and Nilgiri recognised by UNESCO on World Network of Biosphere Reserves. ✓  
 B. Sacred grooves are 'Refugiams' for rare, endemic and endangered species. ✓  
 C. Great Nicobar is not recognised as Biosphere Reserve.

Choose the correct statements :

(1) B and C only  
 (2) A and B only  
 (3) A and C only  
 (4) A, B and C

143. Match the following :

A. Ramsar site	1. Simlipal
B. Kawal Tiger Reserve	2. Kerala
C. Periyar Sanctuary	3. Chilka Lake
D. Biosphere Reserve	4. Adilabad

Choose the correct matching :

(1) A-4, B-3, C-2, D-1  
 (2) A-3, B-4, C-1, D-2  
 (3) A-3, B-4, C-2, D-1  
 (4) A-2, B-3, C-4, D-1

144. Which of the following Act was introduced first in India ?

(1) Air (Prevention and Control of Pollution) Act  
 (2) Water (Prevention and Control of Pollution) Act  
 (3) The Wildlife Protection Act  
 (4) Biodiversity Act

145. Narmada Bachao Andolan was held against which project ?

(1) Bakra Nangal Dam  
 (2) Tehri Dam  
 (3) Sardar Sarovar Dam  
 (4) Almatti Dam

146. When will be World Wetland day is celebrating in a year ?  
 (1) January 8 (2) February 2  
 (3) April 7 (4) May 1

147. Montreal Protocol was signed in 1987 To mark the occasion which day is celebrating ?  
 (1) Green Consumer day  
 (2) World Earth day  
 (3) World Ozone day  
 (4) World Health day

148. Consider the following statements :

A. Soil pollution decreases soil fertility. ✓  
 B. Soil pollution has adverse effects on soil microbial population. ✓  
 C. Indiscriminate use of agro-chemicals increase the soil flora and fauna.

Choose the correct statements :

(1) A and C only  
 (2) B and C only  
 (3) A and B only  
 (4) A, B and C

149. Development that meets the needs of the present without compromising the ability of future generations to meet their own needs is called \_\_\_\_\_.  
 (1) Progressive development  
 (2) Successive development  
 (3) Sustainable development  
 (4) Negative development

150. The integrated use of a wide range of pest, nutrient, soil and water management technologies is called as

(1) Green revolution  
 (2) Sustainable agriculture  
 (3) Traditional agriculture  
 (4) Silviculture