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## **Post of Forest Apprentice in Tamil Nadu Forest Subordinate Service (Group-VI Services)**

1. The Ministry of Environment and First launched Mangrove Conservation Programme in  
(A) 1967 (B) 1977  
(C)  1987 (D) 1997  
(E) Answer not known

2. Anamalai Tiger Reserve earlier known as  
(A) Muthumalai Wildlife Sanctuary  
(B) Bandipur National Park  
(C)  Indra Gandhi Wild Life Sanctuary and National Park  
(D) None of these  
(E) Answer not known

3. \_\_\_\_\_ is an example of an ex-situ conservation.  
(A) Sacred groves (B) Wildlife Sanctuary  
(C)  Seed bank (D) National Park  
(E) Answer not known

4. Mountain subtropical forest found in region of  
(A) Sunderbans (B)  Nilgiris  
(C) Himalayas (D) Lower Himalayas  
(E) Answer not known

5. The direct value of biodiversity also known as  
(A)  Use value and commodity value  
(B) Consumptive use value  
(C) Productive value  
(D) Optim value  
(E) Answer not known

6. The Community of diversity otherwise called  
(A) Genetic diversity (B)  Ecosystem diversity  
(C) Species diversity (D) All above  
(E) Answer not known

7. A mosaic of mountain evergreen forests and grassland is known as  
(A) Alpine Forest (B) Temperate Forest  
(C)  Sholas Forest (D) Tropical Evergreen Forest  
(E) Answer not known

8. Match the following :  
(a) Air Act (1) 1986  
(b) Water Act (2) 2000  
(c) Noise Pollution Rule (3) 1974  
(d) Environmental Protection Act (4) 1981  
  
(a) (b) (c) (d)  
(A) 4 3 1 2  
(B) 2 1 4 3  
(C)  4 3 2 1  
(D) 1 3 4 2  
(E) Answer not known

9. Flora is referred to as  
(A) Sps of animal (B)  Sps of Plant  
(C) Both (A) and (B) (D) None of these  
(E) Answer not known





20. Man And Biosphere (MAB) Programme launched by  
(A) FAO (B) ~~UNESCO~~  
(C) UNDP (D) WWI  
(E) Answer not known

21. Identify the incorrect statement among the following statements on the effects of deforestation  
(A) Destroys the natural habitat of wild animals  
(B) Alters the local weather patterns  
(C) ~~Speeds up nutrient recycling~~  
(D) It leads to soil erosion  
(E) Answer not known

22. The term used for forest having significant religion connection for the protecting community and are communally  
(A) Reserve forest (B) Protected forest  
(C) Evergreen forest (D) ~~Sacred Grooves~~  
(E) Answer not known

23. Which of the following is incorrectly paired?  
(A) Rhizophora – Red Mangrove  
(B) Avicennia – Black Mangrove  
(C) Bruguiera – Large leaved orange Mangrove  
(D) ~~Ceriops~~ – Sandy Mangroves  
(E) Answer not known

24. Vandalur Zoological Park located near in  
(A) Bangalore (B)  Chennai  
(C) Mysore (D) Coimbatore  
(E) Answer not known

25. Agasthiyamalai is core zone  
(A) Muthumalai National Park  
(B)  Kalakkad Muthumalai Tiger Reserve  
(C) Indira Gandhi National Park  
(D) Mukenthai National Park  
(E) Answer not known

26. Which one of the following pairs is not correctly matched?  
(A) Phagotrophs – Macro consumers  
(B)  Profundal Zone – Shallow water region  
(C) Lotic – Running water  
(D) Autotrophs – Transducers  
(E) Answer not known

27. The arrival and settlement of some organisms on the bare area is called  
(A) Ecesis (B)  Migration  
(C) Nudation (D)  Invasion  
(E) Answer not known

28. Which one is a submerged rooted hydrophyte?  
(A) Hydrilla (B)  Vallisnaria  
(C) Typha (D) Lemna  
(E) Answer not known



33. Autecology means

- (A) Study of communities behaviour
- (B) Study of autotrophes
- (C) Study of particular species
- (D) Study of group of organism
- (E) Answer not known

34. 'Coral bleaching' is mainly due to the formation of

- (A) Sulfuric acid
- (B) Carbonic acid
- (C) Nitric acid
- (D) Hydrochloric acid
- (E) Answer not known

35. Most of the boreal forests are dominated by

- (A) American birch
- (B) Sugar maple
- (C) Oak
- (D) Balsam fir
- (E) Answer not known

36. Which one is an example of tropical grassland?

- (A) Savanna
- (B) Prairies
- (C) Arctic tundra
- (D) Alpine tundra
- (E) Answer not known

37. Consider the following statement:

Assertion (A) : Grasslands are much less diverse than most forests, and consequently they have low inertia and can burn easily.  
Reason (R) : Grassland ecosystems have high resilience and can recover quickly after a fire, as their root systems produce new grasses.

(A) Both (A) and (R) are true and (R) is the correct explanation of (A).  
 (B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)  
(C) (A) is true, but (R) is false  
(D) Both (A) and (R) are false  
(E) Answer not known

38. The major reservoir for phosphorous is phosphate salts containing  $\text{PO}_4^{3-}$  in \_\_\_\_\_ and \_\_\_\_\_  
(A) Atmosphere and Ocean sediments  
(B) Ocean sediments and wetlands  
 (C) Terrestrial rock formations and Ocean bottom sediments  
(D) Forests and Atmosphere  
(E) Answer not known

39. The whole sequence of communities that successively change in a given area is called  
(A) Ecesis (B) Dispersal  
 (C) Sere (D) Climax  
(E) Answer not known

40. Choose the correct one for non-succulent perennials.

(A) Begonia and Aloe  
(B) Cassia tora and Solanum Xanthocarpum  
**(C) Calotropis procera and Acacia nilotica**  
(D) Opuntia and Euphorbia  
(E) Answer not known

41. Asparagm and Ceiba parrifolia store water in their

(A) leaves (B) roots  
(C) stems (D) nodes  
(E) Answer not known

42. Stomatal movement of plant is related to

(A) Transpiration (B) Absorption  
**(C) Both (A) and (B)** (D) Adsorption  
(E) Answer not known

43. Plants growing in scarcity of water is known as

(A) Mesophytes (B) Xerophytes  
(C) Hydrophytes (D) Halophytes  
(E) Answer not known

44. The average net primary productivity of an eco system is usually measured by

(A) KCal (B) KCal/yr  
**(C) KCal/m<sup>2</sup>/yr** (D) KCal/m<sup>3</sup>/yr  
(E) Answer not known



49. Which one of the following communicable disease causing agent simultaneously contains both DNA and RNA?

(A)  Bacteria (B)  Viruses  
(C)  Viroids (D)  Prions  
(E)  Answer not known

50. Which of the following drug in pasteurella multocida mediated infection?

(A)  Amikacin (B)  Erythromycin  
(C)  Gentamycin (D)  Penicillin G  
(E)  Answer not known

51. There is global variation in the prevalence of HBV infection. Which of the following geographic areas has low endemicity (HBs Ag prevalence of < 2%)?

(A)  Australia (B)  India  
(C)  South Africa (D)  North America  
(E)  Answer not known

52. What does the phrase “Environmental Sustainability” imply?

(A)  The actions of humans directly impact the well being of the natural environment  
(B)  Future generations will have the resources necessary for quality of life  
(C)  A shared global responsibility is necessary for conservation  
(D)  All of these are implied by environmental sustainability  
(E)  Answer not known

53. Sardar Lal Bahuguna is concerned with

(A) Sardar Sarovar Project  
(B)  Tehri Dam Project  
(C) Narmada Sagar Project  
(D) Cauvery Water Dispute  
(E) Answer not known

54. Displaced populations are affected most because they lose their

(A) Land (B) House  
(C) Money (D)  Habitat  
(E) Answer not known

55. HIV-1 and HIV-2 were derived from \_\_\_\_\_ common in Africa.

(A)  Primate Lentiviruses (B) Primate Polioviruses  
(C) Primate TM viruses (D) Primate Cancer viruses  
(E) Answer not known

56. Which of the following statements concerning antigenic drift in influenza viruses is correct?

(A) It results in major antigenic changes  
(B) It is exhibited only by influenza A virus  
(C) It is caused by mutations  
(D)  It results in new sub types over course of time  
(E) Answer not known

57. Viruses belonging to which of the following groups are likely to establish latent infections?

(A) Pox viruses (B) Filo viruses  
(C) Herpes viruses (D) Influenza viruses  
(E) Answer not known

58. The current reservoir for Yersinia pestis in the United States/any other developed nations is

(A) Rural Wild Rodents (B) Urban Feral Cats  
(C) Domestic Cows (D) Coyotes  
(E) Answer not known

59. Which one of the following agents lacks nucleic acid?

(A) Prions (B) Viruses  
(C) Viroids (D) Protozoa  
(E) Answer not known

60. Mark the incorrect statement regarding the adaption of E.Coli in the intestine of man by water pollution.

(A) E.Coli reproduce fast  
(B) E.Coli respire aerobically  
(C) E.Coli provide vitamins to the host  
(D) E.Coli feed on the undigested food of the host  
(E) Answer not known

61. SHG (Self Help Groups) Programme runs under the programme entitled

(A) Swadhar (B) Swayamsidha  
(C) Swavalamban (D) Swa-Shakti  
(E) Answer not known

62. Which of the following is not thought to be a possible consequence of rising CO<sub>2</sub> levels?

(A) C<sub>4</sub> crops such as corn, being replaced by more -C<sub>3</sub> plants like wheat and soybean

(B) Rising global temperature

(C) ✓ Increased breakdown of atmospheric ozone

(D) Increased vegetative productivity

(E) Answer not known

63. How much forest land had submerged in the construction of Tehri Dam (Uttaranchal)?

(A) ✓ Approximately 4,600 hectare of forest land

(B) Approximately 3,600 hectare of forest land

(C) Approximately 3,200 hectare of forest land

(D) Approximately 10,000 hectare of forest land

(E) Answer not known

64. Respiratory electron transport chain can be inhibited by

(A) ADP

(B) Phosphate

(C) ✓ H<sub>2</sub>S

(D) CO<sub>2</sub>

(E) Answer not known

65. Article 47 of our Indian Constitution states that

- (A) The state have to protect and improve the environment and to safeguard the forest and wildlife
- (B) The state is to ensure as its primary duty to raise standard of living people
- (C) Citizens are required to protect and improve the natural environment, including forest, lakes, rivers etc.
- (D) None of the above
- (E) Answer not known

66. A disease not caused by water pollution is

- (A) Jaundice
- (B) AIDS
- (C) Cholera
- (D) Dysentry
- (E) Answer not known

67. HDV (delta agent) is found only in patients who have either acute (or) chronic infection with HBV. Which of the following is most correct?

- (A) HDV is a defective mutant of HBV
- (B) HDV depends on HBV surface antigen for virion formation
- (C) HDV induces an immune response from that induced by HBV
- (D) HDV contains a circular DNA genome
- (E) Answer not known

68. HIV infected women transmit AIDS to their kids through

- (A) During delivery and breast feeding
- (B) Eating food with same vessel
- (C) Soap oils and napkins
- (D) Eating food with different vessels
- (E) Answer not known

69. In a person with HIV infection, potentially infectious fluids include all of the following except

(A) Urine not visibly contaminated with blood  
(B) Genital fluid  
(C) Amniotic fluid  
(D) Saliva visibly contaminated with blood  
(E) Answer not known

70. Several different viruses can cause hepatitis. One of the following statements applies to all 4 viruses. HAV, HCV, -HDV and HEV.

(A) It contains a single stranded RNA genome  
(B) It is transmitted primarily by the parenteral route  
(C) It is transmitted primarily by the fecal-oral route  
(D) It is associated with Fulminant hepatitis  
(E) Answer not known

71. What is the expansion of SDMC?

OR

What is SDMC stands for?

(A) SAARC Disaster Management Council  
(B) State Disaster Management Centre  
(C) State Disaster Management Council  
(D) Scientific Disaster Management Council  
(E) Answer not known

72. The systematic approach and practice of managing uncertainty to minimise potential harm and loss is

(A) Risk management (B) Hazard management  
(C) Disaster management (D) Predisaster management  
(E) Answer not known

73. What is the action taken after a disaster with a view to restore infrastructure and service?

(A) Mitigation (B) Emergency response  
(C) Recovery (D) Pre disaster activities  
(E) Answer not known

74. The point where first movement occurs during earthquake is called

(A) dip (B) slip  
(C) epicenter (D) focus  
(E) Answer not known

75. What is CISF stands for?

(A) Chemical Industrial Security Force  
(B) Chemical Insurance and Safety Forum  
(C) Central Institute of Safety Forces  
(D) Central Industrial Security Force  
(E) Answer not known

76. What is the role of Executive Director of NIDM in accordance to the Section 42 (4) of the DM Act, 2005?

(A) Chair Person (B) Vice Chair Person  
(C) Member (D) Member Secretary  
(E) Answer not known

77. What is the role of Union Home Secretary in National Institute of Disaster Management (NIDM)?

(A) Chairperson (B) Vice Chair Person  
(C) Member (D) Member Secretary  
(E) Answer not known

78. What is constituted under Section 8 of DM Act, 2005 to assist National Authority?

(A) National Executive Committee  
(B) NDMA  
(C) CDMA  
(D) DDMA  
(E) Answer not known

79. Floods forecast is the responsibility of \_\_\_\_\_ in India.

(A) Central Water Commission  
(B) GSI  
(C) Indian Meteorological dept.  
(D) Indian National Centre for Oceanic Information Services  
(E) Answer not known

80. Who is the Chairman for State Disaster Management Authority (SDMA)?

(A) Prime Minister (B) Chief Minister  
(C) Collectors (D) High Court Judges  
(E) Answer not known



86. What are all the states on east coast are more prone to cyclones?

(A)  Tamil Nadu, Andhra Pradesh, Orissa, West Bengal, Pondicherry  
(B) Kerala, Mumbai, Delhi  
(C) Kerala, UP., MP., HP.  
(D) HP, UP, Meghalaya  
(E) Answer not known

87. How many battalions of NDRF trained to handle various types of Natural and manmade disasters?

(A)  8  
(B) 6  
(C) 144  
(D) 18  
(E) Answer not known

88. What is the wind speed of severe cyclonic storm?

(A)  89–118 Km/h  
(B) 50–61 Km/h  
(C) 222 or more Km/h  
(D) 119–221 Km/h  
(E) Answer not known

89. What is the wind speed of the Deep Depression?

(A) Less than 31  
(B) 31–49  
(C)  50–61  
(D) 62–82  
(E) Answer not known

90. What is the cyclone termed as typhoons?

(A)  North West Pacific including the South China Sea  
(B) North Atlantic including West Indies  
(C) Caribbean Sea  
(D) North East Pacific  
(E) Answer not known

91. What is the concept combines an understanding of the likelihood of a hazardous event occurring with an assessment of its impact?

(A) Risk (B) Vulnerability  
(C) Hazard (D) Capacity  
(E) Answer not known

92. What is the formula used to calculate risk at a place?

(A) Hazard  $\times$  Vulnerability/capacity  
(B) Hazard  $\times$  infrastructure/population  
(C) Hazard/population  
(D) None of the above  
(E) Answer not known

93. Where do the massive earthquakes generally occurs?

(A) Near the junction of two tectonic plates  
(B) Near the poles  
(C) Near the core  
(D) Near to continent  
(E) Answer not known

94. Earthquake over magnitude on the Richter scale are progressively damaging to property and human life.

(A) Over 5.5 (B) Over 3  
(C) Over 4 (D) Over 4.5  
(E) Answer not known

95. What is the former name of "Standing Fire Advisory Council" (SFAC)?  
(A) Standing Fire Advisory Committee  
(B) State Fire Advisory Committee  
(C) Safety of Fire Advisory Committee  
(D) Fire Safety Advisory Council  
(E) Answer not known

96. Which one of the following is wrongly matched?  
(A) Gully erosion-water  
(B) Desertification-over grazing  
(C) Submergence of large areas-dams  
(D) Loss of vegetation-shelter belt  
(E) Answer not known

97. The leading country to use ethanol as an alternative fuel is given below :  
(A) Pakistan (B) Switzerland  
(C) India (D) Brazil  
(E) Answer not known

98. Find out the incorrect statement  
(A) The area where river water flows into sea is known as Estuaries  
(B) Ground water depletion may lead to salt water intrusion  
(C) Dams also affect the population of aquatic organisms  
(D) Dams are not useful to prevent floods  
(E) Answer not known



104. Natural soil erosion may be called as  
(A)  Geological erosion      (B) Water erosion  
(C) Wind erosion      (D) Gully erosion  
(E) Answer not known

105. Choose the other name for shelter belts given below  
(A) Alley cropping      (B) Terracing  
(C)  Wind breaks      (D) Contour farming  
(E) Answer not known

106. In India, more number of dams are found in the following state?  
(A)  Maharashtra      (B) Madhya Pradesh  
(C) Kerala      (D) Rajasthan  
(E) Answer not known

107. The only diamond mine in our country is  
(A)  Panna, Madhya Pradesh      (B) Ramgiri, Karnataka  
(C) Dibrugarh, Assam      (D) Neyveli, Tamil Nadu  
(E) Answer not known

108. Match the following :

(a) Desert and thorn forests	(1) West Bengal
(b) Mangrove forests	(2) Western Himalayas
(c) Alpine forests	(3) Kerala
(d) Wet tropical forests	(4) Rajasthan

(a) (b) (c) (d)

(A) 4 2 1 3  
(B) 4 1 2 3  
(C) 4 1 3 2  
(D) 1 3 4 2  
(E) . Answer not known

109. Which one of following is a critical reason for construction of dam across river?

(A) Prevent floods  
(B) Hydro electric power  
(C) Irrigation and drinking water supply  
(D) All of the above  
(E) Answer not known

110. What branch of forestry is concerned with the establishment of valuable timber trees?

(A) Horticulture  
(C) Arboriculture  
(E) Answer not known  
(B) Silviculture  
(D) Apiculture

111. Arrange the metals in order based on India's position of production

- I. Aluminum
- II. Copper
- III. Zinc
- IV. Iron

(A)  IV, III, II, I  
(B) IV, I, II, III  
(C) IV, II, I, III  
(D) IV, I, III, II  
(E) Answer not known

112. What among the following are classified as non-renewable resources?

(A) Forest (B) Water  
(C)  Minerals (D) Wildlife  
(E) Answer not known

113. Percolation tanks are used for

(A)  Ground water recharge (B) Ground water conservation  
(C) Rain water harvesting (D) Ground water abstraction  
(E) Answer not known

114. In India, fresh water requirement is higher on

(A) Industries and transportation  
(B)  Agriculture  
(C) Domestic use and power plants  
(D) Thermal power generation  
(E) Answer not known

115. Major coal resources in India are located in  
(A) Himalayas (B) South India  
(C) Central and Eastern India (D) Western India  
(E) Answer not known

116. A cleaner source of energy is  
(A) Coal (B) Fossil fuels  
(C) Natural gas (D) ~~Hydro power~~  
(E) Answer not known

117. The biggest Indian Desert is  
(A) Gobi Desert (B) Sahera Desert  
(C) ~~Thar~~ Desert (D) Takla makan Desert  
(E) Answer not known

118. CNG is preferred over LPG because it is  
(A) Costlier than LPG (B) Lighter than LPG  
(C) Easy to transport than LPG (D) ~~Releases lesser greenhouse gas~~  
(E) Answer not known

119. A metal largely used in the electricity generation is  
(A) Gold (B) ~~Thorium~~  
(C) Tin (D) Mica  
(E) Answer not known

120. Among the fossil fuel which one is the cleanest fuel?  
(A) Coal (B) Petroleum  
(C) Gasohol (D) ~~Natural Gas~~  
(E) Answer not known

121. Accumulation of atmospheric oxygen is not due to

- (A) Photosynthesis
- (B) Oxidise the ferrous iron present in the earth crust into feric iron
- (C) Photolysis of water vapour
- (D)  Oxidation of sulphur compounds
- (E) Answer not known

122. Which statement is correct?

- (A) Equatorial region as the zone of “heat surplus and polar region as heat emission area”
- (B)  Equatorial region as the zone of “heat surplus and polar region as heat deficiency region”
- (C) Equatorial region as cold region and polar region as the heat surplus region
- (D) Equatorial region as cold region and polar region as the heat deficiency region
- (E) Answer not known

123. The upper portion of the lithosphere is enriched with

- (A) Silicon and Magnesium
- (B)  Silicon and Aluminium
- (C) Aluminium and Magnesium
- (D) Oxides of iron
- (E) Answer not known

124. pH of the rain water is

- (A) Neutral
- (B) Alkaline
- (C)  Acidic
- (D) Strong basic
- (E) Answer not known

125. Which of the following is not a sink for carbon?

(A) Oceans (B) Soils  
(C) Atmosphere (D) Trees  
(E) Answer not known

126. Match the following :

(a) The Montreal Protocol	1. 1997
(b) Green chemistry	2. Replace ozone depleting gases
(c) Kyoto protocol	3. 1987
(d) Anti green house effect	4. Suspended particulate

(a)	(b)	(c)	(d)
(A) 3	4	2	1
(B) 3	4	1	2
(C) 3	2	1	4
(D) 4	2	3	1
(E) Answer not known			

127. The ozone layer is present in

(A) Mesosphere	(B) Thermosphere
(C) Troposphere	(D) Stratosphere
(E) Answer not known	

128. Match the following :

(a) Food chain	1. Autotrophs
(b) Food web	2. Saprotrophs
(c) Decomposer	3. Interlocking pattern of various food chain
(d) Herbivores	4. Linear sequence

(a)	(b)	(c)	(d)
(A) 2	4	1	3
(B) 3	4	1	2
(C) 4	3	2	1
(D) 2	1	4	3
(E) . Answer not known			

129. Plant and animal communities living together in similar climatic conditions are called

(A) Biome	(B) Biosphere
(C) Habitat	(D) Environment
(E) Answer not known	

130. The Cauvery river basin receives rainfall mainly from

(A) North-East monsoon	(B) South-East monsoon
(C) South-West monsoon	(D) North-West monsoon
(E) Answer not known	

131. To maintain soil productivity, the soil pH should be

(A) pH $\approx$ 8.1	(B) pH $\approx$ 7
(C) pH $\approx$ 5	(D) pH $\approx$ 5-6
(E) Answer not known	



137. Find out the correct sequence of hydrological cycle

(A) Surface run-off – Precipitation – Transpiration – Evaporation  
(B) ~~✓~~ Evaporation – Transpiration – Precipitation – Surface run-off  
(C) Surface run-off – Transpiration – Evaporation – Precipitation  
(D) Surface run-off – Precipitation – Evaporation – Transpiration  
(E) Answer not known

138. Find out the correct order of atmospheric zones from the earth's surface.

(A) Thermosphere → Stratosphere → Mesosphere → Troposphere  
(B) ~~✓~~ Troposphere → Stratosphere → Mesosphere → Thermosphere  
(C) Stratosphere → Troposphere → Mesosphere → Thermosphere  
(D) Troposphere → Mesosphere → Stratosphere → Thermosphere  
(E) Answer not known

139. Arrange the following atmospheric gaseous constituents in ascending order by volume basis.

(A) ~~✓~~ CO, He, Ne, CO<sub>2</sub>, Ar, O<sub>2</sub>, N<sub>2</sub>  
(B) O<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub>, Ar, He, Ne, CO  
(C) N<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub>, Ar, He, Ne, CO  
(D) N<sub>2</sub>, O<sub>2</sub>, Ar, CO<sub>2</sub>, Ne, He, CO  
(E) Answer not known

140. The Statement not related to the strategy of sustainable development is

(A) Meets the needs of the present without compromising the ability of future generations to meet their own needs  
(B) Dealing primarily with global problems  
(C) Designed to reduce the environmental effects of process  
(D) ~~✓~~ Using nuclear energy for power production  
(E) Answer not known

141. Which one emit large quantity of Volatile Organic Compounds (VOCs)?  
(A) Animals (B) Oceans  
(C) Plants (D) Humans  
(E) Answer not known

142. Which method is related to storage of liquid hazardous wastes?  
(A) Landfill (B) Pyrolysis  
(C) Surface impoundments (D) Composting  
(E) Answer not known

143. The air pollutants are transported at high altitudes by evaporation and winds from tropical and temperate areas through the atmosphere to the earth's polar areas and this factor called as  
(A) Greenhouse effect (B) Photochemical smog  
(C) Acid rain (D) Grasshopper effect  
(E) Answer not known

144. Effluent from leather tanning industries causes  
(A) Water pollution  
(B) Land pollution  
(C) Both water and land pollution  
(D) Air pollution  
(E) Answer not known

145. Which vehicles contributes highest percentage of pollution?  
(A) Trucks (B) Buses  
(C) Two-wheelers (D) Three-wheelers  
(E) Answer not known

146. Human beings can hear only sounds ranging from  
(A) Above 20,000 Hz (B) ~~20 Hz to 20,000 Hz~~  
(C) 20 Hz to 30,000 Hz (D) 30,000 Hz to 40,000 Hz  
(E) Answer not known

147. The total amount of biodegradable substances in waste water is given in terms of  
(A) Chemical oxygen demand  
(B) Dissolved oxygen  
(C) ~~Biological oxygen demand~~  
(D) Saturated oxygen  
(E) Answer not known

148. Kyoto protocol is related to  
(A) Curtailing of SO<sub>x</sub> emissions  
(B) Curtailing of CFC emissions  
(C) Curtailing of NO<sub>x</sub> emission  
(D) ~~Curtailing of CO<sub>2</sub> emission~~  
(E) Answer not known

149. The process of conversion of solid biomass into a combustible gas mixtures is called  
(A) Combustion (B) Pyrolysis  
(C) Digestion (D) ~~Gasification~~  
(E) Answer not known

150. What is the unit used to express noise levels?

(A) PPM (B) BTU  
(C)  dB (D) CTU  
(E) Answer not known

151. A Plutonium bomb 'Fat man' was dropped on Nagasaki on

(A) 6<sup>th</sup> August, 1945 (B)  14<sup>th</sup> August, 1945  
(C) 24<sup>th</sup> August, 1945 (D) 5<sup>th</sup> August, 1945  
(E) Answer not known

152. Recyclable plastics are

(A) Thermosetting plastics (B) Bakelites  
(C)  Thermo plastics (D) Bis-phenols  
(E) Answer not known

153. Little effect on photographic plate is produced by

(A)  $\alpha$  - rays (B)   $\gamma$  - rays  
(C)  $\beta$  - rays (D) UV - rays  
(E) Answer not known

154. \_\_\_\_\_ reduced the oxygen carrying capacity of the blood.

(A) CO<sub>2</sub> (B) SO<sub>2</sub>  
(C) NO<sub>2</sub> (D)  CO  
(E) Answer not known

155. The intensity of odour is expressed in terms of

(A) Parts per million (ppm) (B)  Threshold odour number  
(C) Parts per billion (ppb) (D) Milligrams per liter (mg/L)  
(E) Answer not known

156. What is the permissible limit of chloride in drinking water?

(A) 150 mg/L (B) 1000 mg/L  
(C)  250 mg/L (D) 500 mg/L  
(E) Answer not known

157. Radioactive isotope used for food irradiation technique is

(A) U-235 (B) PU-238  
(C)  CO-60 (D) U-239  
(E) Answer not known

158. The disease caused by excess consumption of fluorine is

(A) Methaemoglobin (B) Asbestosis  
(C)  Fluorosis (D) Silicosis  
(E) Answer not known

159. London smog episode happened due to

(A) Photochemical smog (B)  Coal burning smog  
(C) Oxidizing smog (D) Peroxy acylnitrates  
(E) Answer not known

160. As per the National Ambient Air Quality Standards (NAAQS), the primary standards refers to

(A)  Protect public health (B) Protect public welfare  
(C) Protect agricultural crops (D) Protect structures  
(E) Answer not known

161. The false statement regarding the environmental impact assessment is

- (A) Schedule I → Lists of projects
- (B) Schedule II → Application forms
- (C) Schedule III → Details of EAC
- (D) ~~Schedule IV~~ → Lists of hot spots
- (E) Answer not known

162. Which was the first country that implemented / mandatory status to Environmental Impact Assessment?

- (A) United Kingdom
- (B) ~~United States of America~~
- (C) India
- (D) Japan
- (E) Answer not known

163. Which one of the following is the best matrix method for environmental impact assessment?

- (A) Sphene matrix
- (B) ~~Leopold matrix~~
- (C) Saratogue matrix
- (D) Component interaction method
- (E) Answer not known

164. In 1991, which country promulgated the Natural Resource Conservation Authority Act?

- (A) India
- (B) USA
- (C) ~~Jamaica~~
- (D) Japan
- (E) Answer not known



168. Considering the statements regarding Environmental Impact Assessment (EIA)

- I. Responsibility for implementation of EIA notification lies with MOEF and CE
- II. EIA notification is applicable to all states
- III. Category A projects requires Environmental clearance

Which of the above statements is / are correct?

- (A) I and II (B) II and III
- (C) I, II and III (D) I and III
- (E) Answer not known

169. 0.77 – 0.86 ranges are the application areas by Remote sensing to study of what?

- (A) Delineation of water features, landforms/geomorphic studies
- (B) Strong chlorophyll absorption leading to plants
- (C) Turbidity of water pollution
- (D) Vegetation thickness and various forms
- (E) Answer not known

170. \_\_\_\_\_ is used for identifying and measuring the impact of industrial products on environment.

- (A) Environmental monitoring
- (B) Product decay analysis
- (C) Life cycle analysis
- (D) Products validity analysis
- (E) Answer not known

171. EIA stands for

- (A) Environmental Improvement Act
- (B)** Environmental Impact Assessment
- (C) Environmental Issues Act
- (D) Environmental Improvement Authority
- (E) Answer not known

172. Which one of the following sequence is correct to obtain Environmental clearance for new projects?

- (A) Screening, Scoping, Appraisal, Public Consultation
- (B)** Screening, Scoping, Reporting, Public Consultation
- (C) Screening, Public Consultation, Scoping, Reporting
- (D) Public Consultation, Screening, Scoping, Reporting
- (E) Answer not known

173. An Environmental Impact Assessment (EIA) Process is an assessment of the possible impact of a new project may have on

- (A) Environmental aspects
- (B) Social and economic aspects
- (C) (A) is true (B) is false
- (D)** Both (A) and (B) are true
- (E) Answer not known

174. Coastal Regulation Zone (CRZ) is classified into

- (A) CRZ-I, CRZ-II
- (B) Coastal zone – East coast-I, West coast-II
- (C) CRZ-I, CRZ-III, CRZ-V, CRZ-VI, CRZ-VIII
- (D)** CRZ-I, CRZ-II, CRZ-III, CRZ-IV
- (E) Answer not known

175. SWAT is a river basin scale hydrological model developed for the \_\_\_\_\_ agricultural research service

(A)  USDA (B) USA  
(C) United Nations (D) SAARC  
(E) Answer not known

176. The International Organization for Standardization (ISO) for the ISO 14001 standard was established in the year \_\_\_\_\_, this framework is the official international standard for an EMS

(A)  1996 (B) 1998  
(C) 1995 (D) 1987  
(E) Answer not known

177. CRZ notification of Govt. of India specify the stretches of sea, bays, estuaries etc, as coastal areas requires protection from developmental activities upto \_\_\_\_\_

(A)  500 m from high tidal level  
(B) 150 m from high tidal level  
(C) 500 m from low tidal level  
(D) 100 m from low tidal level  
(E) Answer not known

178. The Ganga Action Plan II (GAP-II) was launched in 1993 for pollution abatement of river \_\_\_\_\_ major tributaries of Ganga

(A) Yamuna and Cauvery (B) Yamuna and Brahmaputra  
(C) Yamuna and Saraswathi (D)  Yamuna and Gomti  
(E) Answer not known

179. The earth summit held at Rio de Janeiro in 1992 resulted into

- (A) Compilation of red list
- (B) Establishment of biosphere reserves
- (C) Convention on biodiversity
- (D) IUCN
- (E) Answer not known

180. What is the spectral range of coastal environmental studies (morphology) and soil/vegetation differentiation?

- (A) 0.45 – 0.52
- (B) 0.52 – 0.59
- (C) 0.62 – 0.68
- (D) 0.77 – 0.86
- (E) Answer not known

181. Which among the following is not related to ozone layer depletion?

- (A) CFCS
- (B) Freons
- (C)  $\text{SO}_2$
- (D) Halons
- (E) Answer not known

182. Which among the following is related to emission norms for CNG and LPG vehicles?

- (A) Bharat Stage II 2001
- (B) India 2000 (Eq to Euro 1)
- (C) 1996 mass emission norms
- (D) Bharat Stage III
- (E) Answer not known



187. El Nino has its influence which originate from

(A) Indian ocean (B) Arctic ocean  
(C) Atlantic ocean (D) ~~Pacific ocean~~  
(E) Answer not known

188. Which among the following green house gas is considered as responsible for “Anthropogenic Global Warming”?

(A) Nitrous oxide (B) Methane  
(C) CFCs (D) ~~Carbon dioxide~~  
(E) Answer not known

189. Which among the following gas is good in stratosphere bad in troposphere?

(A) CO<sub>2</sub> (B) ~~Ozone~~  
(C) Methane (D) Nitrous oxide  
(E) Answer not known

190. Which among the following green house gases is a flammable gas?

(A) Nitrous oxide (B) ~~Methane~~  
(C) CO<sub>2</sub> (D) Ozone  
(E) Answer not known

191. Match the following :

(a) Green house effect	(1) Colourless, Flammable
(b) CO <sub>2</sub>	(2) Powerful natural green house effect
(c) Methane	(3) Deforestation
(d) Water vapour	(4) Kyoto protocol

(a)	(b)	(c)	(d)
(A) 4	3	2	1
(B) 4	1	3	2
(C) 4	2	1	3
(D) 2	1	4	3
(E) Answer not known			

192. Global worming will lead to climate change which will have

- (A) Negative effects
- (B) Positive benefits
- (C) Negative effects and positive benefits
- (D) Uniformly negative
- (E) Answer not known

193. Match the following :

(a) Deep Ocean current	(1) Thermohaline circulation
(b) Shallow Ocean current	(2) Cool saline water
(c) North Atlantic Deep water	(3) Warm water current
(d) Oceanic conveyer system	(4) NADW

(a)	(b)	(c)	(d)
(A) 2	3	4	1
(B) 2	1	4	3
(C) 2	3	1	4
(D) 3	1	2	4
(E) Answer not known			



199. Arrange the layers of atmosphere from the surface of earth

- I. Mesosphere
- II. Stratosphere
- III. Troposphere
- IV. Thermosphere

- (A) II, III, I, IV
- (B) II, I, III, IV
- (C)  III, II, I, IV
- (D) III, I, II, IV
- (E) Answer not known

200. Which of the following is linked to Kyoto protocol?

- (A)  Greenhouse gas emissions
- (B) Acid rain
- (C) Global warming
- (D) Nuclear Research and Disarmament
- (E) Answer not known