

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

1. The Ministry of Environment and Forests 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) | <input checked="" type="checkbox"/> 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

10. Which year was declared as the International Year of Biodiversity?
(A) 1986 (B) 1996
(C) 2010 (D) 2016
(E) Answer not known
11. Biosphere Reserve Programme was launched by
(A) Indian Board of Wild Life (B) National Biodiversity Authority
(C) UNESCO (D) CBD
(E) Answer not known
12. Teak and Sal Forest belongs to the
(A) Tropical Wet Evergreen Forest
(B) Tropical Moist Semi Evergreen Forest
(C) Tropical Moist Deciduous Forest
(D) Dry Tropical Deciduous Forest
(E) Answer not known
13. The region of the earth in which harbour a very large number of species
(A) Mega zone (B) Mega Diversity zone
(C) Macro zone (D) Both (A) and (B)
(E) Answer not known
14. The Indian Biodiversity Hotspot
(A) Aravali Hills (B) Agastyamalai Hills
(C) Papa Ghats (D) Red Hills
(E) Answer not known

15. The species diversity of a region is measured on
(A) Species richness (B) Equitability
(C) Evenness (D) All of the above
(E) Answer not known
16. Periyar Wildlife Sanctuary is located in
(A) Nilgiri, Tamil Nadu (B) Kumily, Kerala
(C) Mysore, Karnataka (D) Tiruneveli, Tamil Nadu
(E) Answer not known
17. Botanical Survey of India have brought out Red Data Books on
(A) Indian endangered animals species
(B) Indian endangered plant species
(C) Both (A) and (B)
(D) None of these
(E) Answer not known
18. Red Data Book an animals and plants is publication of
(A) IUCCN (B) WWI
(C) WWF (D) UNDP
(E) Answer not known
19. Kalakad Mundan Thurai Tiger Reserve was created in
(A) 1958 (B) 1968
(C) 1978 (D) 1988
(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 are of the following is incorrectly paired?
(A) Rhizophora – Red Mangrove
(B) Avicennia – Black Mangrove
(C) Bruguieria – 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) Mukenthi 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

29. Common flowering trees existed in temperate evergreen forests are
(A) Fagns and Betula (B) Picea and Acer
(C) Ficus elastica and Shorea (D) Rhododendrons and Quercus
(E) Answer not known
30. The number of secondary consumers such as carnivorous fish in a pond ecosystem are
(A) Higher (B) Optimum
(C) Lesser (D) Absent
(E) Answer not known
31. The successive levels of energy flow constituting the links of the food chain are called
(A) Food web (B) Energy pyramid
(C) Trophic levels (D) Seral stages
(E) Answer not known
32. Which bacteria is involved for symbiotic nitrogen fixation in plants?
(A) Bacillus (B) Azomonas
(C) Azotobacter (D) Rhizobium
(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 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/m²/yr
 - (D) KCal/m³/yr
 - (E) Answer not known

45. Carnivores are
- (A) Primary consumers (B) Tertiary consumers
(C) Secondary consumers (D) Decomposers
(E) Answer not known
46. Which of the following is the best example of reclamation of disturbed lands?
- (A) Growing crops on land formerly used for grazing
(B) Regulating the use of a natural resource in order for it to renew itself
(C) Restoring vegetation to an area that has been mined
(D) Constructing a new wet land to compensate for the loss of wet lands
(E) Answer not known
47. SO_2 and NO_2 produce pollution by increasing
- (A) Acidity (B) Buffer action
(C) Alkalinity (D) Neutrality
(E) Answer not known
48. Department of women and child development of Govt. of India was established in the year of
- (A) 1985 (B) 1984
(C) 1950 (D) 1972
(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. Sardarlal 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 CO₂ levels?
- (A) C₄ crops such as corn, being replaced by more -C₃ 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) H₂S
 - (D) CO₂
 - (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) Dysentery
 - (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 parental 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

81. Which is the top continent in the list of casualties due to natural disasters?
- (A) Africa (B) Asia
(C) Arctic (D) Antarctic
(E) Answer not known
82. Post disaster activities relate to
- (A) Response and recovery activities
(B) Emergency response activities
(C) Mitigation and preparedness activities
(D) Disaster management activities
(E) Answer not known
83. The cyclonic storm of China sea is popularly known as
- (A) Cyclone (B) Willy Willies
(C) Typhoon (D) Hurricane
(E) Answer not known
84. Who is the Chairman of DDMMAs?
- (A) Prime Minister (B) Chief Minister
(C) District Collectors (D) High Court Judges
(E) Answer not known
85. _____ occurs in almost all river basin in India.
- (A) Avalanche (B) Cyclone
(C) Flood (D) Thunder
(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

99. Mention the name of the water that infiltrates and held by the soil?
- (A) Run-off water (B) Surface water
(C) Grey water (D) Capillary water
(E) Answer not known
100. The following plants cannot be used for bio-mass energy production?
- (A) Sugarcane (B) Rose
(C) Corn (D) Eucalyptus
(E) Answer not known
101. Water usage in our country is expressed in descending order?
- (A) Industry, Irrigation, Domestic, Power
(B) Irrigation, Industry, Domestic, Power
(C) Irrigation, Industry, Power, Domestic
(D) Industry, Power, Irrigation, Domestic
(E) Answer not known
102. Which year, the Forest Conservation Act was passed in India?
- (A) 1952 (B) 1986
(C) 1973 (D) 1980
(E) Answer not known
103. Which state in India has the largest Forest cover area?
- (A) Andhra Pradesh (B) Madhya Pradesh
(C) Orissa (D) TamilNadu
(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) Maharastra (B) Madhya Pradesh
(C) Kerala (D) Rajasthan
(E) Answer not known
107. The only diamond mine in our country is
- (A) Panna, Madhyapradesh (B) Ramgiri, Karnataka
(C) Dibrugarh, Assam (D) Neyveli, TamilNadu
(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 |
| <input checked="" type="radio"/> (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 | <input checked="" type="radio"/> (B) Silviculture |
| (C) Arboriculture | (D) Apiculture |
| (E) Answer not known | |

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) Sahara 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 ferric 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 at 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
 - (C) Acidic
 - (B) Alkaline
 - (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 |
| <input checked="" type="radio"/> (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

- | | |
|--|-----------------|
| <input checked="" type="radio"/> (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 |
| <input checked="" type="radio"/> (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 | <input checked="" type="radio"/> (B) pH \approx 7 |
| (C) pH \approx 5 | (D) pH \approx 5-6 |
| (E) Answer not known | |

132. The process of conversion of rocks into particles is called
(A) Chemical Weathering (B) Biological Weathering
(C) Regoliths (D) Collision
(E) Answer not known
133. Point out the correct statement :
(A) Always COD values are equal to BOD
(B) Always BOD values are higher than COD
(C) COD values are higher than BOD
(D) Sometimes BOD are higher than COD
(E) Answer not known
134. In human 'sleeping sickness' caused by _____ Parasite.
(A) Plasmodium (B) Amoeba
(C) Trypanosoma (D) Entamoeba
(E) Answer not known
135. The following pathogenic disease is not caused by the viruses
(A) Small pox (B) Typhoid
(C) Hepatitis (D) Poliomyelitis
(E) Answer not known
136. Bacteria obtain their energy and carbon source from organic matter is called
(A) Autotrophic bacteria (B) Heterotrophic bacteria
(C) Photoautotrophs bacteria (D) Chemoautotrophs bacteria
(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, CO₂, Ar, O₂, N₂
 - (B) O₂, N₂, CO₂, Ar, He, Ne, CO
 - (C) N₂, O₂, CO₂, Ar, He, Ne, CO
 - (D) N₂, O₂, Ar, CO₂, 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_x emissions
(B) Curtailing of CFC emissions
(C) Curtailing of NO_x emission
(D) Curtailing of CO₂ 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) 6th August, 1945 (B) 14th August, 1945
(C) 24th August, 1945 (D) 5th 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) α - rays (B) γ - rays
(C) β - rays (D) UV - rays
(E) Answer not known
154. _____ reduced the oxygen carrying capacity of the blood.
(A) CO₂ (B) SO₂
(C) NO₂ (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) Spheue 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
 - (C) Jamaica
 - (B) USA
 - (D) Japan
 - (E) Answer not known

165. Which of the statements given below is/are correct?

- I. The developmental projects are required to prepare EIA report
- II. The developmental project does not overdraw from its ecological and environmental aspects
- III. Only a few countries have enacted suitable legislation regarding EIA

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

166. Environmental Audit is a process assess

- (A) Raw material and waste minimization
- (B) To improve the technical competency
- (C) Energy conservation and monitoring
- (D) All of the above
- (E) Answer not known

167. Environmental Impact statement is a vital step in the process of

- (A) Environmental Audit
- (B) Environmental Impact Assessment
- (C) Environmental Issues Analysis
- (D) Environmental Pollution Monitoring
- (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) SO₂
 - (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

183. Acid rain damages buildings made up of limestone and marble by the formation of
- (A) Magnesium
 - (B) Gypsum flakes
 - (C) Sodium bi carbonate
 - (D) Calcium silicate
 - (E) Answer not known
184. Which among the following is not the effect of acid rain?
- (A) Acidic lake water
 - (B) Damage to historic monuments
 - (C) Depletion of ozone layer
 - (D) Change in soil chemistry
 - (E) Answer not known
185. What among the following is the source of sulfur dioxide to the atmosphere?
- (A) Nuclear power station
 - (B) Power plants using coal as fuels
 - (C) Hydro electric power
 - (D) Automobiles
 - (E) Answer not known
186. Aerosols that are potential of cooling the atmosphere are
- (A) Dust
 - (B) Sooty
 - (C) Sulfate
 - (D) Nitrate
 - (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) CO₂ (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) CO₂ (D) Ozone
(E) Answer not known

191. Match the following :

- | | |
|------------------------|---|
| (a) Green house effect | (1) Colourless, Flammable |
| (b) CO ₂ | (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 warming 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 | | | |

194. Which of the following are climate proxies?
- (A) Tree rings (B) Pollen deposits
(C) Ice cores (D) All the above
(E) Answer not known
195. The global average temperature has increased since 1976 by
- (A) 0.6°C (B) 0.1°C
(C) 6°C (D) 3°C
(E) Answer not known
196. Which among the following serve as atmospheric cleansing agents?
- (A) Hydroxy radical (OH) (B) Sea salts
(C) Sun light (D) All the above
(E) Answer not known
197. Which of the following is not an aerosol?
- (A) Dust (B) Pollen
(C) Carbon particles (D) Neon
(E) Answer not known
198. Which of the characteristics feature is related to Troposphere
- (A) Vertical mixing of gases, Turbulent
(B) Weather and climate occurs
(C) Substances pushed back to earth
(D) All the above
(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