

ENVIRONMENTAL SCIENCES

PAPER – II
CODE-26

OMR Answer Sheet No. :

Roll No. :

(in figures as in Hall Ticket)

Roll Number in words :

260150

Question Booklet Sl. No.

Name & Signature of the Invigilator

Time : 2 Hours]
No. of Printed Pages : 20
[Maximum Marks : 100

Instructions for the Candidates

- Write your Roll Number in the space provided on the top of this page.
- This paper consists of **one hundred (100)** multiple choice type of questions. **All** questions are compulsory.
- At the commencement of examination, the question booklet will be given to you. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as below :
 - To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a booklet without sticker seal and do not accept an open booklet.
 - Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.
 - After this verification is over, the Test Booklet Number should be entered on the OMR Answer Sheet and the OMR Answer Sheet Number should be entered on this Test Booklet.
- Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the oval as indicated below on the correct response against each item.
Example: (A) (B) (C) (D) where (B) is the correct response.
- Your responses to the items are to be indicated on the OMR Answer Sheet under Paper – II only. If you mark your response at any place other than in the oval in the OMR Answer Sheet, it will not be evaluated.
- Rough Work is to be done in the end of this booklet.
- If you write your Name, Roll Number, Phone Number or put any mark on any part of the OMR Answer Sheet, except for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, such as change of response by scratching or using white fluid, you will render yourself liable to disqualification.
- You have to return the original OMR Answer Sheet to the invigilator at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are however, allowed to carry original question booklet and duplicate copy of OMR Answer Sheet on conclusion of examination.
- Use only Blue/Black Ball point pen.
- Use of any calculator or any electronic devices or log table etc., are prohibited.
- There shall be no negative marking.

પરીક્ષાર્થીઓ માટે સૂચનાઓ

- આ પાનાની ટોચ પર દર્શાવેલી જગ્યામાં તમારો રોલ નંબર લખો.
- આ પ્રશ્નપત્રમાં બહુવિકલ્પિક ઉત્તરો ધરાવતા સો (૧૦૦) પ્રશ્નો આપેલા છે. બધા જ પ્રશ્નો ફરજિયાત છે.
- પરીક્ષાની શરૂઆતમાં આપને પ્રશ્નપુસ્તિકા આપવામાં આવશે. પ્રથમ પાંચ (૫) મિનિટ દરમિયાન તમારે પ્રશ્નપુસ્તિકા ખોલી અને ફરજિયાતપણે નીચે મુજબ પરીક્ષણ કરવું :
 - પ્રશ્નપુસ્તિકાનો વપરાશ કરવા માટે આ કવર પૃષ્ઠની ધાર પર આપેલ સીલ સ્ટીકર ફાડી નાખો. કોઈપણ સંજોગોમાં સીલ સ્ટીકર વગરની કે ખુલ્લી પ્રશ્નપુસ્તિકા સ્વીકારશો નહીં.
 - કવર પૃષ્ઠ પર છપાયેલ નિર્દેશાનુસાર પ્રશ્નપુસ્તિકાના પ્રશ્નો, પૃષ્ઠો અને સંખ્યાને બરાબર ચકાસી લો. ખામીયુક્ત પ્રશ્નપુસ્તિકા કે જેમાં પ્રશ્નો/ પૃષ્ઠો ઓછાં હોય, બે વાર છપાયા હોય, અનુક્રમમાં અથવા અન્ય કોઈ ફરક હોય અર્થાત કોઈપણ સંજોગોમાં ખામીયુક્ત પ્રશ્નપુસ્તિકા સ્વીકારશો નહીં. અને જો ખામીયુક્ત પ્રશ્નપુસ્તિકા મળી હોય તો નિરીક્ષક પાસેથી તુરંત જ બીજી સારી પ્રશ્નપુસ્તિકા મેળવી લેવી. આ માટે ઉમેદવારને પાંચ (૫) મિનિટનો સમયગાળો આપવામાં આવશે. પછીથી, પ્રશ્નપુસ્તિકા બદલવામાં આવશે નહીં કે કોઈ વધારાનો સમયગાળો આપવામાં આવશે નહીં.
 - આ ચકાસણી સમાપ્ત થાય પછી, પ્રશ્નપુસ્તિકાનો નંબર OMR જવાબ પત્રક પર લખવો અને OMR જવાબ પત્રકનો નંબર પ્રશ્નપુસ્તિકા પર લખવો.
- પ્રત્યેક પ્રશ્ન માટે ચાર જવાબ વિકલ્પ (A), (B), (C) અને (D) આપવામાં આવેલ છે. તમારે સાચા જવાબના ઓવલ (oval) ને નીચે આપેલ ઉદાહરણ મુજબ પેનથી ભરીને સંપૂર્ણ ઠાવું કરવાનું રહેશે.
ઉદાહરણ : (A) (B) (C) (D) કે જ્યાં (B) સાચો જવાબ છે.
- આ પ્રશ્નપુસ્તિકાના પ્રશ્નોના જવાબ અલગથી આપવામાં આવેલ OMR જવાબ પત્રકમાં પેપર-11 લખેલ વિભાગમાં જ અંકિત કરવા. જો આપ OMR જવાબ પત્રકમાં આપેલ ઓવલ (oval) સિવાય અન્ય સ્થાને જવાબ અંકિત કરશો તો તે જવાબનું મૂલ્યાંકન કરવામાં આવશે નહીં.
- ઠાવું કામ (Rough work) પ્રશ્નપુસ્તિકાના અંતિમ પૃષ્ઠ પર કરવું.
- જો આપ OMR જવાબ પત્રક નિયત જગ્યા સિવાય અન્ય કોઈપણ સ્થાને, આપનું નામ, રોલ નંબર, ક્લેન નંબર અથવા એવું કોઈ ચિહ્ન કે જેનાથી તમારી ઓળખ થઈ શકે, અંકિત કરશો અથવા અબદ ભાષાનો પ્રયોગ કરો, અથવા અન્ય કોઈ અનુચિત સાધનોનો ઉપયોગ કરો, જેમકે અંકિત કરી દીધેલ જવાબ ભૂંસી નાખવો કે સફેદ શાકીનો ઉપયોગ કરી બદલશો તો આપને પરીક્ષા માટે અયોગ્ય જાહેર કરવામાં આવશે.
- પરીક્ષા સમય પૂરો થઈ ગયા બાદ ઓરીજનલ OMR જવાબ પત્રક જે તે નિરીક્ષકને ફરજિયાત સોપી દેવું અને કોઈ પણ સંજોગોમાં તે પરીક્ષા પંક્તી બહાર લઈ જવું નહીં. પરીક્ષા પૂર્ણ થયા બાદ ઉમેદવાર ઓરીજનલ પ્રશ્નપુસ્તિકા અને OMR જવાબ પત્રકની ડુપ્લિકેટ કોપી પોતાની સાથે લઈ જઈ શકે છે.
- માત્ર કાળી / ભૂરી બોલ પોઈન્ટ પેન વાપરવી.
- કેલ્ક્યુલેટર, લોગ ટેબલ અને અન્ય ઇલેક્ટ્રોનિક યંત્રોનો ઉપયોગ કરવાની મનાઈ છે.
- ખોટા જવાબ માટે નકારાત્મક ગુણાંકન પ્રથા નથી.

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**ENVIRONMENTAL SCIENCES****Paper – II**

1. Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : Environmental education includes the awareness of biological, physical, cultural and physiological environment of man.

Reason (R) : Environmental education can be imparted in formal and non-formal education way.

Choose the correct answer :

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
(B) Both (A) and (R) are correct and (R) is not the correct explanation of (A)
(C) (A) is true but (R) is false
(D) (A) is false but (R) is true
2. Which of the following Sustainable Development Goals (SDGs) of UN is about 'climate action' ?
- (A) Goal 9 (B) Goal 12
(C) Goal 13 (D) Goal 14
3. Which among the following are agro-climatic regions of India according to Planning Commission ?
- I. Lower Gangetic Plain Region
II. Eastern Himalayan Region
III. Gujarat Plains and Hills
IV. Island Region

Choose the correct option :

- (A) I, II and IV (B) II, III and IV
(C) I, III and IV (D) I, II, III and IV
4. NNRMS stands for
- (A) National Natural Resources Management System
(B) National Natural Reusable Management System
(C) National Natural Resources Mitigation System
(D) National Natural Resources Management Sources

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5. Given below are two statements.

Statement – I : In the Raster method of Graphic Representation of spatial data, the whole area is divided into a grid comprising of squares of equal size called grid cells.

Statement – II : Vector method provide more accurate representation than Raster method.

Choose the correct answer from the options given below :

- (A) Both the statements are true
- (B) Both the statements are false
- (C) Statement I is true but statement II is false
- (D) Statement I is false but statement II is true

6. Which among the following is not a major Tectonic plate ?

- (A) Antarctic plate
- (B) Pacific plate
- (C) Arabian plate
- (D) Eurasian plate

7. "The entropy of a system approaches a constant value as the temperature approaches absolute zero" is the _____ law of thermodynamics.

- (A) 1st
- (B) 2nd
- (C) 0th
- (D) 3rd

8. Match Column – I with Column – II and select answer using answer code.

Column – I

- a. National Environmental Engineering Research Institute (NEERI)
- b. Wildlife Institute of India
- c. Centre for Environment Education
- d. CPR Environmental Education Centre

Column – II

- 1. Coimbatore
- 2. Ahmedabad
- 3. Nagpur
- 4. Dehradun
- 5. Chennai

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

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9. Who is the author of the famous environmental science book 'Silent Spring' ?
 (A) Rachel Pearson (B) Rachel Carson
 (C) Akio Murakami (D) Paul Carson
10. How many biogeographic realms are there in the World ?
 (A) Six (B) Seven (C) Eight (D) Nine
11. pH of a 4.0×10^{-2} M solution of HCl is
 (A) 1.2 (B) 2.4 (C) 4.6 (D) 6.8
12. The bomb calorimeter is used to determine the caloric value of
 (A) solids (B) liquids (C) gases (D) solids and liquids
13. Lead, ethanol, nitric oxide are examples for
 (A) Neurotoxins (B) Hepatotoxins
 (C) Contact toxins (D) Neurotoxins and Hepatotoxins
14. According to WHO, highly toxic pesticides are _____ pesticide.
 (A) Class – I (B) Class – II (C) Class – III (D) Class – IV
15. The process by which a chemical coagulant is added to the water, which acts to facilitate bonding between particles creating larger aggregates which are easier to separate is
 (A) sedimentation (B) coagulation
 (C) flocculation (D) redox reaction
16. Most stable radioactive element is
 (A) Technetium (B) Astatine
 (C) Actinium (D) Francium
17. The analytical technique which is based on absorption of visible light and ultraviolet light by solution is called
 (A) spectrophotometry (B) gravimetry
 (C) titrimetry (D) stoichiometry
18. In which chromatography technique mobile phase moves through stationary phase by influence of gravity or capillary action ?
 (A) Gas chromatography (B) High performance liquid chromatography
 (C) Paper chromatography (D) Supercritical fluid chromatography

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19. Which of the following techniques can be used for the analysis of metals in an environment matrix ?
- (A) X-ray fluorescence and FTIR techniques
 - (B) AAS and UV-visible techniques
 - (C) ICP-AES and NMR techniques
 - (D) ICP-AES and X-ray fluorescence techniques
20. HPLC is
- (A) High pressure liquid chromatography performed on plane surfaces
 - (B) High pressure liquid chromatography performed in columns
 - (C) High pressure liquid chromatography performed on columns and plane
 - (D) HPLC can be liquid-solid/liquid-liquid/liquid-gas chromatography
21. Which is the most stable ecosystem ?
- (A) Terrestrial ecosystem
 - (B) Freshwater ecosystem
 - (C) Evergreen forest ecosystem
 - (D) Marine ecosystem
22. The first National Park established in India is
- (A) Kaziranga National Park
 - (B) Jim Corbet National Park
 - (C) Sundarbans National Park
 - (D) Nandadevi National Park
23. Which of the following is not a phase I biotransformation reaction ?
- (A) Hydrolysis
 - (B) Conjugation
 - (C) Reduction
 - (D) Oxidation
24. Toxicity due to long term exposure to lower doses of a chemical is known as
- (A) acute toxicity
 - (B) chronic toxicity
 - (C) moderate toxicity
 - (D) high toxicity

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25. Match the Column – I with Column – II and select the answer using answer codes.

Column – I

- a. Trichonympha living in gut of termite
- b. Laying of eggs by Koel inside a crow's nest
- c. Shrew, rat and rabbits living together in a grassland
- d. Association between sea-anemone and hermit crab

Column – II

- 1. Naturalism
- 2. Commensalism
- 3. Mutualism
- 4. Brood parasitism
- 5. Photo cooperation

a b c d

- (A) 3 4 1 5
- (B) 3 4 5 1
- (C) 3 2 1 4
- (D) 4 2 1 5

26. Which one of the following is the correct sequence of the process of succession ?

- (A) Migration → Nudation → Competition → Ecesis → Reaction → Stabilization
- (B) Nudation → Migration → Ecesis → Competition → Reaction → Stabilization
- (C) Ecesis → Migration → Nudation → Competition → Reaction → Stabilization
- (D) Nudation → Migration → Competition → Reaction → Ecesis → Stabilization

27. In Bioremediation, the microorganisms are used to _____ environmental contaminants into less dangerous form.

- (A) Mask
- (B) Breakdown
- (C) Convert
- (D) Neutralise

28. Biosensors which involve specific 'mediators' between reaction and the transducers are example for

- (A) First generation biosensors
- (B) Second generation biosensors
- (C) Third generation biosensors
- (D) Fourth generation biosensors

29. Species or groups of species, whose impact on ecosystem is much larger and influential than would be expected due to just abundance are called

- (A) r species
- (B) keystone species
- (C) k species
- (D) dominant species

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30. Consider the following statements.

- I. Biodiversity is contraction of the term 'Biological Diversity'
- II. Biodiversity is evenly distributed on the earth
- III. Biodiversity includes all organisms from microscopic bacteria to complex plant and animals
- IV. Biodiversity is not important in ecosystem managed by humans

The correct statements are :

- | | |
|---------------------|--------------------|
| (A) I and III only | (B) I and IV only |
| (C) II and III only | (D) II and IV only |

31. Darcy's law is not valid in

- (A) Turbulent flows
- (B) Single dimensional flow
- (C) Small pipe or grain diameters
- (D) Single dimensional flow and small pipe or grain diameters

32. Glyben – Herzberg relation describes the relationship between

- (A) Ground water and salt water intrusion
- (B) Rainfall and ground water
- (C) Fresh water and salt water in coastal aquifers
- (D) Agricultural activity and salt water intrusion

33. Which of the following is true about coriolis force ?

- (A) Coriolis force is maximum at the equator
- (B) Coriolis force is zero at the equator
- (C) Coriolis force acts in line with pressure gradient force
- (D) Coriolis force deflects the wind to the left in the northern hemisphere and to right in the southern hemisphere

34. The water of marine origin that is buried in the sediments during sedimentation is known as

- (A) Sedimentogenic water
- (B) Thalassogenic water
- (C) Magmatogenic water
- (D) Meteoric water

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35. _____ are considered as a major ground water pollutants.
 (A) Arsenic and fluoride (B) Chlorine and bromine
 (C) Microplankton and microplastic (D) Food and animal waste
36. In _____ springs, the overlying material is hard, but it is porous.
 (A) Gravity (B) Mesa
 (C) Handipan (D) Gravity and Handipan
37. Major constituent of sea water is
 (A) Sulphates (B) Carbonates
 (C) Chlorides (D) Dissolved calcium ions
38. Identify the odd one out.
 (A) Earthquake (B) Landslide
 (C) Tsunami (D) Avalanche
39. According to Sattir-Simpson Hurricane scale, Devastating damage will occur by _____ hurricane.
 (A) Category 1 (B) Category 3 (C) Category 5 (D) Category 7
40. Lakes produced by erosive action of the winds results in depression on the land's surface are
 (A) Fluvial lakes (B) Anthropogenic lakes
 (C) Aeolian lakes (D) Landslide lakes
41. Which of the following type of coal is suitable for conditioning soil with moisture ?
 (A) Lignite (B) Peat (C) Anthracite (D) Bitumen
42. Shale oil is extracted from
 (A) Sedimentary rocks (B) Igneous rocks
 (C) Metamorphic rocks (D) Sedimentary and metamorphic rocks
43. Which of the following is true regarding nuclear fuels ?
 (A) Plutonium is a nuclear fuel found in nature
 (B) Pu – 239 decays into Th – 231
 (C) Plutonium is a nuclear fuel generated in nuclear reactors and is not found in nature
 (D) Pu – 239 decays into U – 238

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44. Sunlight can be harnessed as energy through
(A) Photovoltaic cells and vegetation
(B) Solar collectors
(C) Solar collectors and vegetation
(D) Photovoltaic cells and solar collectors
45. Gasoline blended with 10 – 20% methanol or ethanol is known as
(A) Gasol (B) Gasobol (C) Gasohol (D) Gasalcohol
46. Petroleum is classified as sweet if it has
(A) High levels of sulphur
(B) High levels of nitrogen
(C) Low levels of nitrogen
(D) Low levels of sulphur
47. Which of the following statements is true regarding radiation flow ?
(A) Flow of radiation is inversely proportional to fourth power of absolute temperature of radiation body
(B) Flow of radiation is directly proportional to square of absolute temperature of radiation body
(C) Flow of radiation is directly proportional to fourth power of absolute temperature of radiation body
(D) Flow of radiation is inversely proportional to square of wavelength of the radiation emitted by the body
48. Energy can be produced from biomass by
(A) Pyrolysis
(B) Aerobic digestion
(C) Anaerobic and aerobic digestion
(D) Pyrolysis, combustion and anaerobic digestion
49. The amount of energy generated by a hydroelectric power plant depends on
(A) Height through which water falls (head)
(B) Rate of flow of water
(C) Product of head and rate of flow of water
(D) Sum of head and rate of flow of water

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50. The principle of OTEC is based on
- to take advantage of temperature difference existing between warm surface sea water and cold deep sea water
 - take advantage of low tide and high tide
 - take advantage of temperature difference of winds blowing across the oceans near the coast and away from the coast
 - take advantage of temperature difference of surface and deep sea water as well as tides
51. Given below are two statements :
- Statement – I :** An increase of about 10 dB is approximately double the increase in loudness.
- Statement – II :** According to WHO, the indoor sound level should be less than 80 dB.
- Choose the correct option :
- Both the statements are true
 - Both the statements are false
 - Statement I is true but statement II is false
 - Statement I is false but statement II is true
52. Consider the following statements.
- Air pollution to tolerant plant species rapidly synthesizes abscisic acid.
 - Acid rain increases visibility through air.
 - Air pollutants are first deposited upon the canopy of forest.
 - Increased input of nitrogen due to pollution leads to increase in species diversity.
- The correct statements are :
- I and II only
 - I, II and III
 - I and III only
 - III and IV only
53. The process of reuse of waste heat by industries is technically termed as
- regeneration
 - cogeneration
 - recycling
 - recovery
54. The air pollution control devices that are most suitable for removing fine particulate matter (less than $10\text{ }\mu\text{m}$)
- Cyclone and electrostatic precipitator
 - Fabric filter and cyclone
 - Electrostatic precipitator and fabric filter
 - Packed scrubber and fabric filter

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55. The effect of oil drill bits on marine sediments include
 (A) Increase of sulphide concentration (B) Increase of nitrate concentration
 (C) Increase amount of phosphates (D) Decreased microbial activity
56. Beet, carrots and corn are sensitive to
 (A) Particulate matter (B) SO_2
 (C) Fluoride (D) Ammonia
57. What among the following is not related to PAH ?
 (A) Motor vehicle exhaust (B) Naphthalene
 (C) Benzo pyrene (D) Acrolein
58. Which one of the following is not a primary pollutant ?
 (A) Sulphur dioxide (B) Suspended particulate matter
 (C) Sulphuric acid (D) Oxides of nitrogen
59. Which of the following radio nuclides has the longest half life ?
 (A) Cs^{137} (B) Pb^{210} (C) Ra^{226} (D) C^{14}
60. Which among the following is not a part of Criteria Air Pollutants (CAP) ?
 (A) Ozone (O_3) (B) Nitrogen oxides (NO_x)
 (C) Lead (Pb) (D) Carbon dioxide (CO_2)
61. Which one of the following is not a major component of municipal solid waste ?
 (A) Hazardous waste (B) Food waste
 (C) Paper waste (D) Plastic and metal
62. Which one of the following is not stored in glass bottle ?
 (A) Hydrochloric acid (B) Hydrofluoric acid
 (C) Chromic acid (D) Sulphuric acid
63. Which waste can be used to generate biofuel ?
 (A) high grade paper (B) e-waste
 (C) food waste (D) corrugated board



64. Acute hazardous waste is classified as _____ waste.
- (A) B – type (B) F – type
(C) K – type (D) P – type
65. Percentage of single use plastic made from virgin fossil fuel is
- (A) 68% (B) 78% (C) 88% (D) 98%
66. In 2021 – 22, which of the States in India has collected and processed largest amount of e-waste ?
- (A) Maharashtra (B) Karnataka
(C) Haryana (D) Andhra Pradesh
67. Match the Column – I with Column – II and select the correct answer using answer code :

Column – I

Column – II

- a. Alkali metal hydroxides
b. Hydrogen peroxide
c. Hydrofluoric acid
d. Nitric acid

1. Reacts with protein in tissues
2. Strong base
3. Oxidizer
4. Reducing agent
5. Dissolves glass

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

68. Which of the following statement is true regarding biomethanation process ?
- (A) Biomethanation is an aerobic process producing methane and CO
(B) Biomethanation can be used to treat oil spills
(C) Biomethanation is an anaerobic process producing methane and CO₂
(D) Biomethanation is an aerobic process producing methane and hydrogen

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69. Manifestation of hazardous waste is important
- (A) to avoid midnight dumping at wrong places
 - (B) to prevent export of hazardous waste
 - (C) to confirm the waste to be hazardous
 - (D) to prevent synthesis of hazardous waste
70. Fly ash is a by-product, obtained mainly from
- (A) Thermal power plants
 - (B) Nuclear power plants
 - (C) Large forest fires
 - (D) Volcanoes
71. The COP 26 at Glassgow was related to
- (A) India's initiative on plastic use
 - (B) India's initiative of Panchamrit
 - (C) India's mantra of LIFE
 - (D) India's initiative of Panchamrit and Mantra of LIFE
72. Kigali amendment to the Montreal protocol is an international agreement to
- (A) Gradually reduce the consumption and production of hydrofluorocarbons
 - (B) Reduce the consumption and production of plastics
 - (C) Reduce the production of e-waste
 - (D) Reduce the use of fossil fuels
73. Which of the following statements regarding EIA are correct ?
- I. The rules for EIA have been notified under the Environment Protection Act, 1986.
 - II. Public need to be involved during EIA.
 - III. Only certified environmentalists have to be involved in EIA.
 - IV. EIA application of new projects are assessed by Central Planning Commission.
- Choose the correct option :
- (A) III only
 - (B) I only
 - (C) I and II only
 - (D) III and IV only
74. EIA notification 2006 was outcome of the suggestions made by
- (A) Gadgil Committee
 - (B) Kothari Committee
 - (C) Malhotra Committee
 - (D) Govindarajan Committee

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75. Article 21, 48A and 51 A(9) follow the principle of _____ environmental law.
- (A) Polluter pays principle
 - (B) Precautionary principle
 - (C) Principle of strict liability
 - (D) Moral duties of the State
76. Under the Air Act, 1981 which body is empowered to set standards for ambient air quality ?
- (A) MOEFCC
 - (B) Ministry of Home affairs
 - (C) Central Pollution Control Board
 - (D) State Ministry of Home affairs
77. As per 1992 Amendments to the Forest Act, which one of the following is incorrect ?
- (A) Prohibits any exploration or survey in wildlife sanctuaries and National Parks
 - (B) Cultivation of Tea, Coffee, Rubber are not allowed in reserve forest
 - (C) Cultivation of fruit bearing trees, oil yielding plants need approval by central government
 - (D) Planting of native species also needs prior clearance
78. Given below are two statements :
- Statement – I :** The ISO 14000 family of standards provides practical tools for companies and organisations of all kinds to manage their environmental responsibilities.
- Statement – II :** The most popular of the ISO 14000 series of standards is ISO 14001.
- Choose the correct option.
- (A) Both the statements are true
 - (B) Both the statements are false
 - (C) Statement I is true but statement II is false
 - (D) Statement I is false but statement II is true



79. Which among the following are benefits of Environment Auditing ?

- I. Enabling environmental problems and risks to be anticipated and responses planned.
- II. Increase management and employee awareness toward environmental issues.
- III. Provide better private and public image and 'security' to top management.

Choose the correct option.

- (A) I and II only
- (B) II and III only
- (C) I and III only
- (D) I, II and III

80. Which of the following statement is correct in the context of Wildlife Protection Act, 1972 ?

- (A) It extends to all States of India for protection of wild animals, birds, plants
- (B) It has seven Schedules giving degrees of protection
- (C) The plants in Schedule 6 are prohibited from cultivation and planting
- (D) It extends to all States of India except North Eastern States

81. The difference between one-way ANOVA and 2-way ANOVA is that

- (A) One-way ANOVA involves only one independent variable and one dependent while two-way ANOVA involves 2 independent variables and one dependent variable
- (B) One-way ANOVA involves one dependent variable while two-way ANOVA involves 2 dependent and one independent variable
- (C) One-way ANOVA has one dependent and one independent variable while two-way ANOVA has 2 independent and 2 dependent variables
- (D) One-way ANOVA accesses only one variable while two-way ANOVA accesses two variables sequentially

82. Which one of the following test is the most important and widely used in members of non-parametric family ?

- (A) χ^2 test
- (B) Student's t test
- (C) Z test
- (D) F test

83. If the calculated value of F is less than table value of F in one-way ANOVA then

- (A) Reject the null hypothesis that population means are equal
- (B) Accept the null hypothesis that population means are equal
- (C) Reject the null hypothesis that variances of the population are equal
- (D) Accept the null hypothesis that variances of the population are equal

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84. Which of the following model is related to population ecology ?
 (A) Leslie Model
 (B) Lotka-Voltera Model
 (C) Regression Model
 (D) Leslie and Lotka-Voltera Model
85. Which of the following is not a measure of central tendency ?
 (A) Mean
 (B) Standard deviation
 (C) Variance
 (D) Standard deviation and variance
86. The measurement of asymmetry in a data set is known as
 (A) Skewness
 (B) Kurtosis
 (C) Skewness and Kurtosis
 (D) Standard deviation
87. Paired t-test is calculated by the formula
 (A) $t = \bar{X}.N/SD$
 (B) $t = \bar{X}.\sqrt{N} / SD$
 (C) $t = \bar{X}.SD/N$
 (D) $t = \sqrt{N} . SD / \bar{X}$
88. The Lotka-Voltera model involves discrete interaction between
 (A) Prey and Predator
 (B) Autotrophs and Heterotrophs
 (C) Pest and Host
 (D) Biotic and Abiotic Factors
89. Consider the following statements about data used in chi-square analysis
 a. Randomly drawn from population.
 b. Measured variables must be dependent.
 c. Observed frequency should be small.
 d. Values of dependent and independent variables should not be mutually exclusive.
- The correct statements are :
 (A) a, b and c (B) b, c and d (C) b and d (D) a and c
90. In Goodness of fit, attention is given on _____ figure in the chi-square table.
 (A) 0.05 (B) 0.01 (C) 0.001 (D) 0.05, 0.01, 0.001

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91. Match column – I with column – II and select answers using answer code.

Column – I

- a. CFC – 12
- b. Halon I301
- c. CFC – 11
- d. CFC – 113

Column – II

- 1. Fire extinguisher
- 2. Solvent
- 3. Refrigeration
- 4. Aerosol propellant
- 5. Fumigant

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

92. The correct form of GRIHA is

- (A) Green Rating for Integrated Habitat Assessment
- (B) Green Rating for Integrated Housing Assessment
- (C) Green Rating for Investment in Housing Assay
- (D) Green Returns for Integrated Housing Assessment

93. Swachha Bharat Abhiyan is a Clean India Drive Mission launched as a National Campaign by Indian Government in order to cover

- | | |
|--------------------------|--------------------------|
| (A) 5056 Statutory terms | (B) 4041 Statutory terms |
| (C) 2023 Statutory terms | (D) 3021 Statutory terms |

94. Match Column – I with Column – II and select answers using answer code.

Column – I

- a. Project Tiger
- b. Project Elephant
- c. Project Crocodile
- d. Project Sea Turtle

Column – II

- 1. 1975
- 2. 1973
- 3. 1999
- 4. 1988
- 5. 1992

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

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95. Under BS-6 norms, limit of pollution is
 (A) 250 mg/km (B) 125 mg/km
 (C) 80 mg/km (D) 40 mg/km
96. Dengue is caused by
 (A) Aedes aegypti (B) Anopheles stephansi
 (C) Anopheles culicifacies (D) Aedes vittatus
97. Which one of the following is not a purpose of National Water Mission ?
 (A) Conserve water
 (B) Minimize wastage
 (C) Manage water resources
 (D) Build more dams
98. Rainfed Area Development (RAD) and On Farm Wastewater Management (OFWM) are part of
 (A) National Mission for Sustainable Agriculture
 (B) National Mission for a 'Green India'
 (C) National Mission on 'Strategic Knowledge for Climate Change'
 (D) National Mission on 'Sustainable Habitat'
99. People's biodiversity Register is prepared under
 (A) Biological Diversity Act, 2002
 (B) Wildlife Protection Act, 1972
 (C) Environment (Protection) Act, 1996
 (D) Forest Conservation Act, 1980
100. Love canal disaster was related to
 (A) Epidemic diseases
 (B) Nuclear leakage
 (C) Heavy metal pollution
 (D) Problem of land fill

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