Exercise-1

Marked Questions are for Revision Questions.

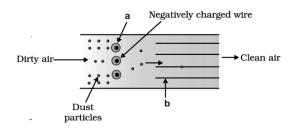
ONLY ONE OPTION CORRECT TYPE

SECTION - A # TYPES OF POLLUTANTS, TYPES OF POLLUTION – AIR POLLUTION, ACID RAIN, OZONE DEPELATION, WATER POLLUTION

| 1. | Pollution can bring about (1) Biogeochemical cyc | • | (2) Abiotic environment | • | | |
|-------|--|---|---|---|--|--|
| | (3) Biotic environmemt | • | (4) All the above | • | | |
| 2.3 | One of the following is the major reason for pollution in big cities | | | | | |
| | (1) Fossil fuels | (2) Acid rain | (3) Heat dispersion | (4) None | | |
| 3.≿ | One of the following is (1) CO ₂ | normally not an importar (2) SO ₂ | nt atmospheric pollutant a | and remains constant (4) Hydrocarbon | | |
| 4.🖎 | Carbon monoxide is a (1) Water | major pollutant of (2) Air | (3) Noise | (4) Soil | | |
| 5.≿⊾ | Air pollution effects are (1) Leaves | e usually found on (2) Flowers | (3) Stems | (4) Roots | | |
| 6. | The carbondioxide con (1) 0.034% | itents in atmospheric air i (2) 0.34% | s about (3) 2.34% | (4) 6.5% | | |
| 7.১ | Major pollutant present | t in the jet plane emission $(2) SO_2$ | n is (3) SO ₃ | (4) fluorocarbon | | |
| 8.æ | One of the most remarkable effect of SO ₂ and it (1) Cell wall destruction (3) Destruction of dictyosomes | | its related transformed products on plants is (2) Plasmolysis (4) Chlorophyll destruction | | | |
| 9.≿ | Lead is pollutant (1) Soil | (2) Air | (3) Water | (4) Noise | | |
| 10.🖎 | Pollutant responsible for (1) SO ₂ | or causing phaeophytizat (2) NO _x | ion is (3) CO ₂ | (4) Aeroallergens | | |
| 11.2 | The classical smog wa | s first obseved in (2) Tokyo | (3) Paris | (4) New York | | |
| 12. | The term smog was co | nined by (2) Tansley | (3) Odum | (4) Clements | | |
| 13.১೩ | Which of the following (1) Automobiles (3) Hydroelectric powe | does not cause atmosph | eric pollution (2) Nuclear power plants (4) Thermal power plants | | | |

| 14. | Jet air lines produce fluoro-carbons in the form of | | | | | | |
|-------|--|---------------------------|---------------------------------------|---------------------------------|--|--|--|
| | (1) Mist | | (2) Fog | | | | |
| | (3) Photochemical sm | og | (4) Aerosol | | | | |
| 15.১೩ | Which of the following air pollutant is carcinogenic | | | | | | |
| | (1) 3, 4 – Benzpyrene | (2) PAN | (3) Ethylene | (4) N ₂ O | | | |
| 16.🖎 | Photochemical smog is also called as | | | | | | |
| | (1) California type smo | og | (2) Tokyo type smog | | | | |
| | (3) Los Angeles type s | smog | (4) New York type sn | nog | | | |
| 17.১೩ | The Mathura refinery | smoke is thought to red | luce the shine of Tajmaha | al by | | | |
| | (1) Increasing U.V rad | liations | (2) Acid rain | | | | |
| | (3) 3, 4 benzpyrene | | (4) All of the these | | | | |
| 18. | The common refrigera | ant chlorofluoromethane | e (freon) and NO _x are ser | ious pollutants because | | | |
| | (1) Destroys haemoglobin | | (2) Disrupts O ₃ layer | | | | |
| | (3) It lowers atmosphe | eric temperature | (4) Prevents cloud co | (4) Prevents cloud condensation | | | |
| 19.১ | Some reliable indicators of air pollutants (SO ₂ and noxious gases) are | | | | | | |
| | (1) Lichens and moss | es | (2) Ferns and Cycas | | | | |
| | (3) 'Neem' tree and Ei | chhornia | (4) Green algae and | aquatic liverworts | | | |
| 20. | Most hazardous metal pollutant of automobile exhaust is | | | | | | |
| | (1) Hg | (2) Cd | (3) Pb | (4) Cu | | | |
| 21.১% | Given bellow the following statements about catalytic converter | | | | | | |
| | (a) It has expensive metals like platinum-palladium and rhodium as the catalysts. | | | | | | |
| | (b) They convert unburnt hydrocarbons into carbon dioxide and water. | | | | | | |
| | (c) They convert carbon monoxide and nitric oxide into carbon dioxide and nitrogen gas respectively. | | | | | | |
| | (d) Motor vehicles equ | uipped with catalytic cor | nverter should use leaded | d petrol. | | | |
| | Select the correct stat | ements - | | | | | |
| | (1) a, b, c, d | (2) b, d | (3) a, c, d | (4) a, b, c | | | |
| 22. 🖎 | Acid rains are due to | | | | | | |
| | (1) O ₃ | (2) $SO_2 + NO_2$ | (3) CO | (4) CO ₂ | | | |
| 23.🖎 | The chemical that con | tributes to the destructi | on of ozone layer of the | earth's surface is | | | |
| | (1) Sulphur dioxide | | (2) Mercury | (2) Mercury | | | |
| | (3) Chlorofluorocarbons | | (4) Carbon monoxide | | | | |
| 24.🖎 | 'Ozone day' is observe | ed on | | | | | |
| | (1) Jaunary 30 | (2) April 21 | (3) September 16 | (4) December 25 | | | |
| 25.৯ | Most hazardous meta | I pollutant of automobile | e exhaust is | | | | |
| | (1) Mercury | (2) Copper | (3) Cadmium | (4) Lead | | | |

26.



Here 'a' & "b" are respectively

- (1) a discharge corona b collection plate grounded
- (2) a collection plate grounded b discharge corona
- (3) a particulate matter b- collection plant ground
- (4) a discharge corona b particulate matter
- 27. The loss of species in the tropical countries is mainly due to
 - (1) Pollution
- (2) Soil erosion
- (3) Deforestation
- (4) Urbanization
- 28. Increase skin cancer and higher mutation rates are generally the consequence of
 - (1) CO₂
- (2) Ozone depletion
- (3) Biomagnification
- (4) Acid rain
- 29. In coming years skin allergies and disorders will be more common due to
 - (1) Air pollution
- (2) Ozone depletion
- (3) Water pollution
- (4) Misuse of detergents

- 30. Rain is called acid rain when its pH is below
 - (1)7

- (2) 6.5
- (3)6

(4) 5.6

- 31. Which one causes photochemical smog
 - (1) O₃, PAN and NO₂
- (2) O₂, PAN and CO
- (3) HCN, NO and PAN (4) O₂, PAN and NO₂

32. Match the columns

| | Column-I | | Column-II | |
|---|------------------------|-----|---------------------------------------|--|
| а | Nitrous oxide | i | Secondary pollutant from car exhausts | |
| b | Chlorofluoro - carbons | ii | Combustion of fossil fuels | |
| С | Methane | iii | Denitrification | |
| d | Ozone | iv | Refrigerators aerosols, sprays | |
| е | Carbon dioxide | ٧ | Cattle, rice fields, toilets | |

(1) a-iii, b-iv, c-v, d-i, e-ii

(2) a-v, b-i, c-iii, d-iv, e-ii

(3) a-iv, b-v, c-i, d-ii, e-iii

- (4) a-i, b-iii, c-iv, d-v, e-ii
- 33. In cities like Bombay and Calcutta the major air pollutants are
 - (1) Ozone

(2) Carbon monoxide and oxides of Sulphur

(3) Hydrocarbons and not air

- (4) Algal spores and marsh gas
- 34. If water pollution continues at present rate, it will eventually
 - (1) Stop water cycle
 - (2) Prevent precipitation
 - (3) Make oxygen molecules unavailble to water plants
 - (4) Make nitrate molecules unavailable to water plants

| 35. Which of the following is the main factor of water pollution | | | | | | | | |
|--|--|---|--|---|--|--|--|--|
| | (1) Smoke | (2) Industrial waste | (3) Detergent | (4) Ammonia | | | | |
| 36.≀≊⊾ | What is B.O.D. (1) The amount of O ₂ utilised by organisms in water (2) The amount of O ₂ utilized by micro organisms for decomposition (3) The total amount of O ₂ present in water (4) All of the above | | | | | | | |
| 37.≿ | Biological treatment of water pollution is done with the help of (1) Phytoplanktons (2) Lichens (3) Fungi (4) None of the above | | | | | | | |
| 38.≥⊾ | | | | | | | | |
| 39. | Water blooms are form (1) Lemna | ned by (2) Hydrilla | (3) Water Hyacinth | (4) Planktonic algae | | | | |
| 40. | Water pollution (1) Increases oxygenation (2) Decreases turbidity (3) Inceases turbidity and deoxygenation (4) Increases photosynthesis | | | | | | | |
| 41.🖎 | The most common indi | icator organisms that rep | resents polluted water is | | | | | |
| | (1) E. coli | (2) S. typhi | (3) Vibrio | (4) Entamoeba | | | | |
| 42.2 | As compared to tap wa (1) High | ater, the BOD of a water (2) Low | body polluted with sewag (3) Normal | e would be (4) Nil | | | | |
| 43.১৯ | | ation of heavy metals lik abiotic contents of enviror (2) > 5 g/cm ³ | • ' | opper, lead is harmful for living $(4) > 1g/cm^3$ | | | | |
| 44.🖎 | One of them is an indic | cator for water quality | | | | | | |
| | (1) Escherichia coli | (2) Beggiatoa | (3) Cadothrix | (4) Azospirillum | | | | |
| 45. | Which of the following citizens group is responsible for the upkeep and safeguarding of marshes in the tour of Arcata situated along the northern cost of California? (1) CITES (2) ICRISAT (3) IUCN (4) FOAM | | | | | | | |
| 46. | In the aquatic body the | concentration of DDT in | small fish | | | | | |
| | (1) 0.003 ppm | (2) 0.5ppm | (3) 0.04ppm | (4) 2ppm | | | | |
| 47. | ~ | ered heavy mortality of f | ishes within a few days. V | Which of the following | | | | |

| | (ii) The c | roplands of th ake water turr | e village were sprayed were sprayed wed green and stinky. | | nearby fields. tly reducing photosynthesis. |
|----------------|-------------|--------------------------------------|---|---|---|
| | (1) (i) and | | (2) (i) and (ii) | (3) (ii) and (iii) | (4) (ii) and (iv) |
| 48 . | | low are four s any two stater | | blanks. Select the optio | n, which correctly fills up the |
| | | _ | er took place on´ anniversary of the Bhop | | observed as theday in |
| | (ii) | _ is a biodegr | adable pollutant while _ | is a non-biodegra | adable pollutant. |
| | . , | • | re released from a single is calledpollution. | • | pollution, but when it is over a |
| | ` , | is the world as | d's most problematic aqu | uatic weed, introduced in | India for its lovely flowers, also |
| | (1) (i) De | ecember 5, Na | ational pollution preventi | on (iv) <i>Parthenium</i> , terroi | r of Bengal. |
| | (2) (i) De | ecember 2, Bh | nopal gas tragedy (ii) DE | T, sewage | |
| | (3) (ii) S | ewage, DDT (| iii) point source, diffuse | d source | |
| | (4) (iii) L | ine source, fix | ed source (iv) Eichhorn | ia, tiger of Bengal | |
| SE | | Green hou | se effect, Internati | onal efforts to reduc | vaste, Global warming - ce pollution. |
| 1.29 | Select the | e correct option | on about ratio of green h | ouse gases | |
| | (1) | 6% N,O 14% CH, 20% CFC | (2) 60% CH, 20% CO, | (3) 60% CO. 20% CFC | (4) 60% CO. 20% CH. |
| 2.29 | The envi | ronmental hav | oc created in | | |
| | ` ' | | Bhopal in 1986 Russia in 1990 | (2) Ukraine in 1988 an(4) Ukraine in 1986 an | |
| 3. <u>S</u> a. | Man mad | de radio active | e element Sr90 accumula | ites through | |
| | (1) Air | io radio dolivo | (2) Food web | (3) Water | (4) Contaminated soil |
| 4. | • | te pollution is ultural fertilize | • | (2) Sedimentary rocks | |
| | . , • | age and phos | • | (4) Sewage and agricu | |
| 5. <i>1</i> 28 | Noise po | llution is meas | sured in | | |
| | (1) Decib | els (db) | (2) Pikograms | (3) Micrograms | (4) None |
| 6. <i>5</i> 9 | Sewage | water is purific | ed for recycling by the a | ction of | |
| | (1) Proto | - | (2) Micro-organisms | (3) Plants and light | (4) Fish |

Name of pollutant

Source

| 1.১ | Given below the following table, select the incorrect option | | | | | | | |
|--------------|---|---|---|--------------------------------------|--|--|--|--|
| | | MISCELLANE | EOUS QUESTIONS | | | | | |
| | | | | | | | | |
| | (3) Lead and Tin | | , , | (4) Lead and strontium | | | | |
| | (1) Mercury and Lea | | (2) Mercury and Cadmium | | | | | |
| 17. | Minamata and itai-ita | ai are caused by the poll | ution of: | | | | | |
| | (1) Air | (2) Soil | (3) Noise | (4) Water | | | | |
| 16.১೩ | Green muffler is rela | ted to pollution of | | | | | | |
| | (3) 37% for plains an | nd 63% for hills | (4) 23% for plains and | (4) 23% for plains and 77% for hills | | | | |
| | (1) 20% for plains an | nd 80% for hills | (2) 33% for plains and | (2) 33% for plains and 67% for hills | | | | |
| 15.≿⊾ | The percentage of fo | orest cover recommende | d by the National forest p | olicy (1988) is – | | | | |
| | (3) $CH_4 > CFC > N_2C$ | O > CO ₂ | (4) $CO_2 > CH_4 > CFC$ | (4) $CO_2 > CH_4 > CFC > N_2O$ | | | | |
| | (1) $CO_2 > N_2O > CFO$ | | ` , | (2) CFC > CO_2 > CH_4 > N_2O | | | | |
| | effect | _ | | | | | | |
| 14.> | Arrange CFC, CH ₄ , | N ₂ O and CO ₂ in decre | easing order according to | their contribution in green house | | | | |
| | (1) Incineration | (2) Recycling | (3) Pyrolysis | (4) Sanitary dumping | | | | |
| | as | | | • | | | | |
| 13.১೩ | The controlled aerobic combustion of wastes inside chambers at temperature of 900-1300°C is known | | | | | | | |
| | ` , | • • | eaction of primary pollutan y a previously useful chen | | | | | |
| | | (2) Production of useful ecological effect by a previously useful chemical(3) Formation of secondary polutants from reaction of primary pollutants | | | | | | |
| | , | e to bomb explosion | | | | | | |
| 12. | Ecological blacklash | (or Ecological explosion | n) is | | | | | |
| | (1) Iodine –127 | (2) Strontium –90 | (3) Cesium –137 | (4) None of these | | | | |
| 11.১ | Bone cancer is caus | · | | | | | | |
| | (3) Mitigate climatic | cnange | (4) Implement Agend | a 21 | | | | |
| | (1) To reduce green | _ | (2) Limit the production | | | | | |
| 10.১ | Montreal Protocol wa | | | | | | | |
| | (1) Soil and water | (2) Air and soil | (3) Crops and air | (4) Air and water | | | | |
| 9.3 | | crops results in the poll | | | | | | |
| | . , . | | , , | (¬) Doin (2) & (0) | | | | |
| <i>E</i> 5.8 | (1) Air pollution | se of fertilizers causes (2) Soil pollution | (3) Water pollution | (4) Both (2) & (3) | | | | |
| 0 >= | The indiceriminate | on of fartilizara course | | | | | | |
| | (1) Biopollutants | (2) Ionosphere | (3) Nuclear blast | (4) Deforestation | | | | |
| 7. | One of the following is not a threat to life | | | | | | | |

Effect

| | (1) | SO ₂ | | Combustion of | fossil fuel | Photo chemical smog | | |
|-------|---|--|------------|-------------------------------------|-------------------|---------------------|----------------------|--|
| | (2) | PAN | | HC + Nitrogen oxides in Sunlight | | Blockin | g of PS-II in plants | |
| | (2) | NO | | Sunlight Nitrogenous fer | tilizare and | Acid ra | in | |
| | (3) | NO _X | | Automobile exh | | Acid ia | 111 | |
| | (4) | CO ₂ | | Burning of fossi | | Global | warming | |
| | (¬) | 00 2 | | Durning or 1000 | 11 1001 | Ciobai | warring | |
| 2.3 | | the wrong statem | | | | | | |
| | ` ' | one in upper part st of the forests h | | • | | | | |
| | ` ' | en house effect i | | • | | | | |
| | ` ' | rophication is a n | | • | | 3 | | |
| 3.29. | Carbon | n monoxide kills b | necause i | it destrovs | | | | |
| 0.63 | | emoglobin | | tochrome | (3) Cytochrome |) | (4) Both 1 and 2 | |
| | . , | _ | . , , | | . , , | | () | |
| 4.8 | | oncentration reco | | • | | | (4) 20, 70 ppm | |
| | (1) 0.3 | – 0.7 ppm | (2) 1.3 - | - 3.1 ppm | (3) 13–31 ppm | | (4) 30–70 ppm | |
| 5.2 | | g of teeth is due | • | | • | ter | | |
| | (1) Mer | cury | (2) Fluo | rine | (3) Boron | | (4) Chlorine | |
| 6.8 | NEERI | is | | | | | | |
| | (1) National Environmental enginnering Research Institute | | | | | | | |
| | ` ' | ional Ecological | | | | | | |
| | ` ' | ional Ethological ional Eugenics a | | _ | | | | |
| | . , | - | | gical rescaron | montato. | | | |
| 7. 🖎 | | ne gas producing | | | (0) 0 (1.1.1 | | (1) 0 | |
| | (1) Wh | eat field | (2) Pado | dy field | (3) Cotton field | | (4) Groundnut field | |
| 8. S | Treatm | ent of polluted w | ater is ca | arried out with th | e help of | | | |
| | (1) Lich | nens | (2) Funç | gi | (3) Ferns | | (4) Phytoplankton | |
| 9.3 | DDT ha | as been a major | pollutant | because it: | | | | |
| | (1) Kills aquatic animals | | | | (2) Kills pests | | | |
| | (3) Destroys many valuable species (4) Is nondegradable | | | | | | | |
| 10.১೩ | Affinity | of CO for haemo | oglobin a | s compared to C | D ₂ is | | | |
| | (1) Two | times | (2) Twe | nty times | (3) 100 times | | (4) 300 times | |
| 11.১ | Hav fev | ver is caused by | | | | | | |
| | (1) Hep | | (2) Den | gue | (3) Allergy | | (4) Helper T-cells | |
| 12.১೩ | | s occurs due to | , , | - | . , | | • | |
| | (1) Acid | d rain | | | (2) Ozone deple | etion | | |
| | (3) Inha | alation of aerosol | ls | | (4) Inhalation of | f SO ₂ | | |
| | | | | | | | | |

- 13. Which can be used for clearing water body
 - (1) Chlorella
- (2) Eichhornia
- (3) Cyanobacteria
- (4) Chlamydomonas

- 14.2 Pollutant emitted by paddy fields is
 - (1) CO₂
- (2) CH₄
- (3) CO
- (4) H₂O₂

- 15. Noise becomes uncomfortable above
 - (1) 180 dB
- (2) 140 dB
- (3) 100 dB
- (4) 80 dB

- **16.** Occurrence of water blooms in a lake indicates
 - (1) Excessive nutrient availability
- (2) Nutrient deficiency

(3) Oxygen deficiency

- (4) Absence of herbivores
- 17.2 Chernobyl nuclear tragedy occurred in
 - (1) April 26, 1986
- (2) August 6, 1945
- (3) August 9, 1945
- (4) December 3, 1984

- 18. Insecticides usually act upon
 - (1) Muscular system
- (2) Digestive system
- (3) Nervous system
- (4) circulatory system
- 19. Lead concentration in blood is considered alarming, if it is
 - (1) 4-6 µg/100 ml
- (2) 10 µg/100ml
- (3) 20 µg/100 ml
- (4) 30µg/100ml

- 20. Environmental Protection act was passed in
 - (1) 1986
- (2)1981
- (3) 1974
- (4) 1968

- **21.** Which is correctly matched?
 - i. Arsenic poisoning Black foot disease.
 - ii. Secondary Effluent treatment Biological process.
 - iii. Pyrolysis Solid soil waste disposal
 - iv. Tubifex Water pollution indicator
 - v. Biomagnification Degradable pollutants
 - (1) i, ii, iii, v
- (2) i, iii, iv, v
- (3) ii, iii, iv, v
- (4) i, ii, iii, iv
- 22. Match the columns and find out the correct combination

| I | | II | | |
|---|----------------|-----|--------------------------|--|
| а | DDT | i | CO, CO ₂ | |
| b | PAN | ii | Smog | |
| С | Acid rain | iii | Biological magnification | |
| d | Global warming | iv | SO ₂ | |

(1) a-iv, b-iii, c-ii, d-i

(2) a-i, b-iii, c-ii, d-iv

(3) a-ii, b-iii, c-iv, d-i

- (4) a-iii, b-ii, c-iv, d-i
- 23. High amount of Esherichia coli in water is an indicator of
 - (1) Hardness of water

(2) Industrial pollution

(3) Sewage pollution

(4) Presence of chlorine in water

| 24. | Effect of pollution is | observed first on | | | | | | |
|-------|---|--|----------------------|---|------------------|--|--|--|
| | (1) Food crops | (2) Green vegetation | (3) Micro-orgar | nisms (4) Herbivore | S | | | |
| 25. 🖎 | Which one is emplo | yed for clearing oil spillage | | | | | | |
| | (1) Escherichia coil | | (2) Streptococo | cus | | | | |
| | (3) Bacillus thuringie | ensis | (4) Pseudomor | nas | | | | |
| 26. 🖎 | Ozone hole enhanc | es | | | | | | |
| | (1) UV radiations re | aching earth | (2) Number of | cataracts | | | | |
| | (3) Skin cancers | | (4) All the above | ve . | | | | |
| 27.2 | Bhopal tragedy was | cuased by | | | | | | |
| | (1) IAA | (2) LIC | (3) MIC | (4) LPG | | | | |
| 28. 🖎 | In Kyoto protocol, th | ne major nations agreed to | reduce emission | of green house gases b | ру | | | |
| | (1) 2008 | (2) 2010 | (3) 2012 | (4) 2018 | | | | |
| 29. 🖎 | During daytime sou | nd level in silent zone is | | | | | | |
| | (1) 20 dB | (2) 40 dB | (3) 50 dB | (4) 90 dB | | | | |
| 30.≿ | The pesticide most | persistent in the soil is | | | | | | |
| | (1) DDT | (2) BHC | (3) Dieldrin | (4) Baygon | | | | |
| 31.≿⊾ | Respiratory disorde | rs occur due to automobile | exhaust hecause | of the release of | | | | |
| J1.63 | (1) CO | (2) NO ₂ | (3) CO ₂ | (4) O ₃ | | | | |
| | . , | . , | (3) 002 | (4) 03 | | | | |
| 32.🖎 | • | black due to action of | | | | | | |
| | (1) H ₂ S | (2) NH ₃ | (3) CH ₄ | (4) CO ₂ | | | | |
| 33.🖎 | Water pollution is ca | Water pollution is caused due to | | | | | | |
| | (1) sewage and other | er wastes | (2) industrial ef | (2) industrial effluents | | | | |
| | (3) agricultural disch | (3) agricultural discharges | | (4) All of the above | | | | |
| | Exercise | R-2 | | | | | | |
| | | <u> </u> | | | | | | |
| 1.2 | | ng are biomagnified at diffe | erent levels of food | d chain? | (NSEB- 2013) | | | |
| | i. Heavy metal | | | | | | | |
| | ii. Aerosol | | | | | | | |
| | iii. DDT | | | | | | | |
| | iv. Green house gas | | (2) i and iii | (4) ii and iii | | | | |
| 2 > | (1) i and ii | (2) i and iv | (3) i and iii | (4) ii and iii | and It was found | | | |
| 2.১ | that the diversity in | ores A and B were compa dex of A was better than the he following can be true? | | | | | | |
| | (1) Eutrophication h(3) Habitat loss cou | as occured at A ld be a problem at A | . , | ion has occured at B ecies are present at B | | | | |
| 3.29. | • | ce in eutrophication are lis of aquatic vegetation | ted below: | | [NSEB-2014] | | | |

- ii. Depletion of dissolved O_2
- iii. Bacteria feed on dead vegetation
- iv. Aquatic ecosystem becomes rich in phosphates

The correct order in which these events occur is:

(1) i, iv, iii, ii

(2) iv, i, iii, ii

(3) i, ii, iii, iv

(4) iv, iii, ii, i

Exercise-3

PART - I: NEET / AIPMT QUESTION (PREVIOUS YEARS)

| 1.29. | Use of lichens in case (1) treatment of pollutar (3) Promote pollution | • | (2) Bioindicators of pollution(4) Lichens have no relation with pollutio | | (AIPMT 1999) on |
|--------------|--|--|---|---------------------------|-----------------------------------|
| 2.3 | A secondary pollutant is (1) CO | s (2) CO ₂ | (3) PAN | (4) Aerosol | (AIPMT 1999) |
| 3.29. | DDT is (1) Biodegradable pollu (3) Not a pollutant | utant | (2) Nondegradable poll (4) An antibiotic | lutant | (AIPMT 1999) |
| 4. 🖎 5. 🖎 | Intensity of sound in no (1) 10 – 20 dB Maximum green house (1) India | (2) 30 – 60 dB | (3) 70–90 dB (3) U.S.A. | (4) 120–150 dE | (AIPMT 2001) 3 (AIPMT 2002) |
| 6.2 | Green house effect is of (1) X-rays | , , | (3) Green rays | (4) Infra-red ray | (AIPMT 2002) |
| 7.2 | Polluted waters do not (1) Stone fly Larvae | | (3) Water Hyacinth | (4) cyanobacte | (AIPMT 2002) ria |
| 8. 9.≿ | Melanin protects us from (1) X-rays Fluoride pollution mainle (1) Brain | (2) Infra red rays | (3) Visible rays(3) Teeth | (4) UV rays (4) Kidney | (AIPMT 2002) (AIPMT 2003) |
| 10.১% | Bhopal gas tragedy of (1) DDT | 1984 took place because (2) Ammonia | e methyl isocyanate reac (3) CO ₂ | ted with (4) Water | (AIPMT 2004) |
| 11.🖎 | Which one of the follow (1) Fossil fuel burning - (3) Solar energy - Gree | Release of CO ₂ | (2) Nuclear power - Ra (4) Biomass burning - F | | (AIPMT 2005) |
| 12.79. | Identify the correctly matched pair (1) Basel convention - Biodiversity conservation (2) Kyoto protocol - Climate change (3) Montreal protocol - Global warming (4) Ramsar convention - Ground water pollution | | | | |
| 13.2 | Which one of the follow (1) Chlorine | ving is not used for disinf (2) Ozone | ection of drinking water? (3) Chloramine | (4) Phenyl | (AIPMT 2005) |

| 14.১ | Limit of BOD prescribe waste waters into nature | | Control Board for discha | arge of industria | (AIPMT 2006) |
|-------|---|---|---|---------------------------|-------------------------------|
| | (1) < 3.0 ppm | (2) < 10 ppm | (3) < 30 ppm | (4) < 100 ppm | (|
| 15.১೩ | Montreal protocol which was passed in year | ch calls for appropriate | action to protect the ozo | one layer from h | numan activities (AIPMT 2006) |
| | (1) 1985 | (2) 1986 | (3) 1987 | (4) 1988 | |
| 16.🖎 | Blue-baby syndrome re | esults from | | | (AIPMT 2006) |
| | (1) Excess of ODS | 1 | (2) Excess of chlorides | | |
| | (3) Excess of dissolved | o oxygen | (4) Methaemoglobin | | |
| 17.১ | Photochemical smog d | loes not contain | (2) Ozono | | (AIPMT 2006) |
| | (1) PAN(3) Nitrogen dioxide | | (2) Ozone (4) CO ₂ | | |
| | ., - | | | | |
| 18. | | | emical oxygen demand) ouent (SE) have been arra | | |
| | (1) SE < PE < S < DE | (2) PE < S < SE < DE | (3) S < DE < PE < SE | (4) SE < S , PE | E < DE |
| 19.১ | In coal fired power plar | nts, electrostatic precipita | ators are fitted to control | emission of : | (AIPMT 2007) |
| | (1) NO _x | (2) CO | (3) SPM | (4) SO ₂ | |
| 20.🖎 | Which is correct | | | | (AIPMT 2007) |
| | (2) Cyanobacteria, Ana | abaena and Nostoc are n | oheric nitrogen in root noo nobilizers of phosphates vithout chemical fertilizers | and plant nutrition | on in soil |
| | (4) Excessive use of ch | nemical fertilizers may le | ad to eutrophication of no | earby water bodi | es |
| 21. | Which is not a bioindica | ator of water pollution | | | (AIPMT 2007) |
| | (1) Blood worms | (2) Stone flies | (3) Sewage fungus | (4) Sludge wor | ms. |
| 22.১ | Which one of the follow contribute to the total g | | ge of the two (out of the | , - | house gases to (AIPMT 2008) |
| | (1) N ₂ O 6%, CO ₂ 86 % | | (2) Methane 20%, N ₂ O | | |
| | (3) CO ₂ 40%, CFC 30% | | (4) CFCs 14%, methar | ie 20% | |
| 23. 🖎 | | ainable Development (20 | , | (4) Consider | (AIPMT 2008) |
| | (1) Argentina | (2) Brazil | (3) South Africa | (4) Sweden | |
| 24. | • | ollution Control Board (Cresponsible for greatest h | CPCB) which particulate s | size in diameter (| in micrometres) (AIPMT 2008) |
| | (1) 1.0 or less | (2) 5·2-2·5 | (3) 2·5 or less | (4) 1.5 or less | (AIFWI 2008) |
| | · / | ` ' | ` ' | () | |
| 25. 🖎 | Montreal Protocol aims | | (0) D. I. (1) | | (AIPMT 2009) |
| | (1) Control of CO₂ emis(3) Biodiversity conservations | | (2) Reduction of ozone(4) Control of water po | | ances |
| 00.5 | . , | | | iidioii | (AIDMT 0000) |
| 26.≿ | Chipko movement was (1) Wet Lands | launched for the protect (2) Grasslands | ion of (3) Forests | (4) Livestock | (AIPMT 2009) |
| 07.5- | . , | , | . , | ` ' | |
| 27.≿ | The two gases making | nignest relative contribu | tion to the greenhouses | yases are. | (AIPMT 2010) |
| | (1) CH₄ and N₂O | (2) CFC _S and N₂O | (3) CO ₂ and N ₂ O | (4) CO ₂ and C | ` , |

| 28.2 | dB is a standard abbre (1) A particular pollutar (3) Certain pesticides | viation used for the quan | ntitative expression of (2) The dominant Bacill (4) The density of bacte | | |
|-------|---|--|---|--|--------------------------------|
| 29.১ | Eutrophication is often (1) Deserts | seen in (2) Fresh water lakes | (3) Ocean | (All (4) Mountains | PMT Pre 2011) |
| 30.≥ | (1) IPCC= Internationa(2) UNEP = United Nat(3) EPA = Environment | I Panel for Climate Chan tions Environmental Polic tal Pollution Agency | • | · | PMT Pre 2011) |
| 31.2 | Which one of following (1) CO ₂ and O ₃ | pairs of gases are the m (2) CO ₂ and CO | najor cause of "Greenhou (3) CFCs and SO ₂ | se effect" (All (4) CO ₂ and N | |
| 32.5 | "Good ozone " is found (1) Mesosphere | I in the : (2) Troposphere | (3) Stratosphere | (AIPN (4) Ionospher | /IT mains - 2011) re |
| 33.2 | (1) Most of the forests(2) Ozone in upper par(3) Greenhouse effect | ng is a wrong statment? have been lost in tropica t of atmosphere is harmf is a natural phenomenor natural phenomenon in f | ul to animals. n. | (A | IPMT Pre 2012) |
| 34.2 | (1) estimating the amortion(2) working out the efficient(3) measuring the activities | • | sewage water. | d on a commer | IPMT Pre 2012) |
| 35.🖎 | The Air Prevention and (1) 1981 | Control of Pollution Act (2) 1985 | came into force in: (3) 1990 | (4) 1975 | (NEET- 2013) |
| 36.≿ | Kyoto Protocol was end (1) CoP - 5 | dorsed at : (2) CoP - 6 | (3) CoP - 4 | (4) CoP - 3 | (NEET- 2013) |
| 37.≿⊾ | Global warming can be controlled by: (1) Reducing reforestation, increasing the use of fossil fuel. (2) Increasing deforestation, slowing down the growth of human population (3) Increasing deforestation, reducing efficiency of energy usage. (4) Reducing deforestation, cutting down use of fossil fuel. | | | | |
| 38.≿⊾ | (1) Gases like sulphur(2) Particulate matter of(3) Gases like ozone a | of the size 5 micrometer of | or above | | (AIPMT-2014) |
| 39.≿ | The zone of atmospher (1) lonosphere | re in which the ozone lay (2) Mesosphere | ver is found (3) Stratosphere | (4) Troposph | (AIPMT-2014) ere |
| 40.2 | A location with luxuriar (1) Trees are very heal (3) Location is highly p | thy | e trees indicates that the (2) Trees are heavily in (4) Location is not pollu | fested | (AIPMT-2014) |

| the atmosphere due t | radiation through (AIPMT-2015) | | | |
|---|---|---|---|---|
| (1) Reduced Immune | System | (2) Damage to eyes | | |
| (3) Increased liver ca | ncer | (4) Increased skin ca | ancer | |
| (1) water is highly po (2) water is less pollu | (AIPMT-2015) | | | |
| Rachel Carson's fam | ous book "Silent Spring" is | related to: | | (AIPMT-2015) |
| (1) Noise pollution | | (2) Population explos | sion | |
| (3) Ecosystem manag | gement | (4) Pesticide pollution | n | |
| Depletion of which ga | as in the atmosphere can I | ead to an increased inc | cidence of skin c | ancers: (NEET-1-2016) |
| (1) Methane | (2) Nitrous oxide | (3) Ozone | (4) Ammonia | a |
| Joint Forest Manager | ment Concept was introdu | ced in India during: | | (NEET-1-2016) |
| (1) 1990s | (2) 1960s | (3) 1970s | (4) 1980s | |
| (1) Warm blooded na | ture | • | (NEET-1-2016) | |
| Biochemical Oxygen effluents from | Demand (BOD) may not | be good index for po | ollution for water | bodies receiving (NEET-2-2016) |
| (1) sugar industry | (2) domestic sewage | (3) dairy industry | (4) petroleun | n industry |
| The highest DDT con | ncentration in aquatic food (2) phytoplankton | chain shall occur in (3) seagull | (4) crab | (NEET-2-2016) |
| (1) Herpes and influe | | (NEET-2-2016) | | |
| Which one of the follo | owing statements in not value | lid for aerosols | | (NEET-2017) |
| | High value of BOD (E (1) water is highly po (2) water is less pollu (3) consumption of or (4) water is pure Rachel Carson's fam (1) Noise pollution (3) Ecosystem mana Depletion of which ga (1) Methane Joint Forest Manager (1) 1990s Which one of the folk (1) Warm blooded na (3) Breathing using lu Biochemical Oxygen effluents from (1) sugar industry The highest DDT cor (1) eel Which of the following (1) Herpes and influe | (1) water is highly polluted (2) water is less polluted (3) consumption of organic matter in the water (4) water is pure Rachel Carson's famous book "Silent Spring" is (1) Noise pollution (3) Ecosystem management Depletion of which gas in the atmosphere can I (1) Methane (2) Nitrous oxide Joint Forest Management Concept was introdu (1) 1990s (2) 1960s Which one of the following characteristics is no (1) Warm blooded nature (3) Breathing using lungs Biochemical Oxygen Demand (BOD) may not effluents from (1) sugar industry (2) domestic sewage The highest DDT concentration in aquatic food (1) eel (2) phytoplankton | High value of BOD (Biochemical Oxygen Demand) indicates that: (1) water is highly polluted (2) water is less polluted (3) consumption of organic matter in the water is higher by the microb (4) water is pure Rachel Carson's famous book "Silent Spring" is related to: (1) Noise pollution (2) Population explos (3) Ecosystem management (4) Pesticide pollution Depletion of which gas in the atmosphere can lead to an increased inc. (1) Methane (2) Nitrous oxide (3) Ozone Joint Forest Management Concept was introduced in India during: (1) 1990s (2) 1960s (3) 1970s Which one of the following characteristics is not shared by birds and recommend (1) Warm blooded nature (2) Ossified endoskee (3) Breathing using lungs (4) Viviparity Biochemical Oxygen Demand (BOD) may not be good index for prefiluents from (1) sugar industry (2) domestic sewage (3) dairy industry The highest DDT concentration in aquatic food chain shall occur in (1) eel (2) phytoplankton (3) seagull Which of the following sets of diseases is caused by bacteria? (1) Herpes and influenza (2) Cholera and tetal | High value of BOD (Biochemical Oxygen Demand) indicates that: (1) water is highly polluted (2) water is less polluted (3) consumption of organic matter in the water is higher by the microbes (4) water is pure Rachel Carson's famous book "Silent Spring" is related to: (1) Noise pollution (2) Population explosion (3) Ecosystem management (4) Pesticide pollution Depletion of which gas in the atmosphere can lead to an increased incidence of skin of the following characteristics is not shared by birds and mammals? (1) Methane (2) 1960s (3) 1970s (4) 1980s Which one of the following characteristics is not shared by birds and mammals? (1) Warm blooded nature (2) Ossified endoskeleton (3) Breathing using lungs (4) Viviparity Biochemical Oxygen Demand (BOD) may not be good index for pollution for water effluents from (1) sugar industry (2) domestic sewage (3) dairy industry (4) petroleum The highest DDT concentration in aquatic food chain shall occur in (1) eel (2) phytoplankton (3) seagull (4) crab Which of the following sets of diseases is caused by bacteria? (1) Herpes and influenza (2) Cholera and tetanus |

51. Match the items given in Column I with those in Column II and select the *correct* option given below: (NEET-2018)

| Column I | | | Column II | | |
|----------|-------------------|------|---------------------|--|--|
| a. | a. Eutrophication | | UV-B radiation | | |
| b. | Sanitary landfill | ii. | Deforestation | | |
| C. | Snow blindness | iii. | Nutrient enrichment | | |
| d. | Jhum cultivation | iv. | Waste disposal | | |

| | а | b | С | d |
|-----|-----|-----|-----|-----|
| (1) | ii | i | iii | iv |
| (2) | i | ii | iv | iii |
| (3) | iii | iv | i | ii |
| (4) | i | iii | iv | ii |

EVNIRONMENTAL ISSUES

| 52. | Which of the following is (1) CO | s a secondary pollutant? (2) O ₃ | (3) SO ₂ | (4) CO ₂ | (NEET-2018) |
|-----|--|--|--|---------------------|--------------------------------------|
| 53. | World Ozone Day is cel (1) 5 th June | ebrated on (2) 22 nd April | (3) 16 th September | (4) 21st April | (NEET-2018) |
| 54. | In stratosphere, which of molecular oxygen? | of the following elements | acts as a catalyst in deg | radation of ozo | ne and release (NEET-2018) |
| | (1) Carbon | (2) Oxygen. | (3) Fe | (4) CI | |
| 55 | | er Antarctic ice-cover | | vaste? | (NEET-1-2019) |
| 56. | Which of the following p (1) Carbon dioxide and (3) Oxygen and Nitroge | | esponsible for green hou (2) Ozone and Ammoni (4) Nitrogen and Sulphu | a | ET-1-2019) |
| 57. | Polyblend, a fine powde | er of recycled modified pl | astic, has proved to be a | | for: Г- 1-2019) |
| | (1) making tubes and pi(3) use as a fertilizer | pes | (2) making plastic sacks(4) construction of roads | 3 | , |
| 58. | Which of the following p | protocols did aim reducing | g emission of chlorofluor | | tmosphere? Γ-1-2019) |
| | (1) Geneva Protocol(3) Kyoto Protocol | | (2) Montreal Protocol(4) Gothenburg Protocol | • | , |
| 59. | (1) Tropospheric ozone(2) Stratospheric ozone(3)Tropospheric ozone | | iations. | (NEET | Г-2-2019) |
| 60. | Which of the following is (1) Burning in the abser (3) Polyblend | s an innovative remedy fonce of oxygen | or plastic waste ? (2) Burrying 500 m deep (4) Electrostatic precipit | o below soil sur | Г -2-2019) face |
| 61. | If an agricultural field is | liberally, irrigated for a p | rolonged period of time, | | e a problem of : Г-2-2019) |
| | (1) Metal toxicity | (2) Alkalinity | (3) Acidity | (4) Salinity | |

PART - II : AIIMS QUESTION (PREVIOUS YEARS)

| 1.29. | A person has impaired nervous system and contaminated water. The metal is : (1) Mercury (2) Calcium | sign of madness due to continued intake of met (AIIMS 2000) (3) Manganese (4) Lead | |
|-------|---|--|----|
| 2.为 | Fertilisers added to fresh water will cause (1) Death of plants (3) Increase in aquatic animals | (2) Decrease in fish population (4) Eutrophication | 2) |
| 3.≿⊾ | BOD is measure of (1) Industrial waste being poured in water body (3) CO combined with haemoglobin | (2) Extent of pollution with organic compounds (4) O ₂ required by green plants during night | 3) |
| 4.🖎 | Drinking mineral water with low levels (~ 0.02 pp | | |
| | (1) Cause cancer of intestine(3) Cause leukaemia | (2) Pesticide accumulation in the body (4) Produce immunity against mosquito | 3) |
| 5.29. | Nitrogen oxides formed during emission from particles which lead to (1) Dry acid deposition (3) Wet acid deposition | automobiles and power plants are a source of fine a (AIIMS 200 (2) Photochemical smog (4) Industrial smog | |
| 6.≥ | Which one of the following statements pertaining (1) DDT is nonbiodegradable pollutant (2) Excess fluoride in drinking water causes oste (3) Excess cadmium in drinking water may cause (4) Methyl mercury in water may cause "itai itai" | eoporosis se black foot disease | 5) |
| 7.🔈 | Formation of nonfunctional methaemoglobin cau (1) Excess of arsenic in drinking water (2) Excess of nitrate in drinking water (3) Deficiency of iron in food (4) Increased methane content in atmosphere | uses blue baby syndrome. This is due to (AIIMS-2009 | 5) |
| 8.24 | Which one of the following is an environment ref (1) Black lung disease is found mainly in worke (2) Blue-baby disease is due to heavy use of ni (3) Non-Hodgkin's lymphoma is found mainly pesticides (4) Skin cancer occurs mainly in people expose | ers of stone quarries and crushers itrogenous fertilizers y in worker involved in manufacture of neem-base | · |
| 9.১ | Montreal Protocol refers to (1) Substances that deplete ozone layer (2) Persistent organic pollutants (3) Global warming and climate change (4) Biosafety of genetically modified organisms | (AIIMS-200 | |
| 10 🛰 | A sewage treatment process in which a portion | on of the decomposer bacteria present in the waste | ic |

(2) Tertiary treatment

(4) Cyclic treatment

recycled into the beginning of the process, is called.

(1) Primary treatment

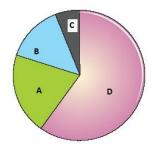
(3) Activated sludge treatment

(AIIMS-2007)

| 11.29. | A lake with an inflow of domestic sewage rich in organic waste may result in (1) An increased production of fishes due to lot of nutrients (2) Death of fishes due to lack of oxygen (3) Drying of the lake very soon due to algal bloom (4) Increased population of aquatic food web organisms | | | | | | | | |
|--------|---|---|--|--------------------|-------------------------------|--|--|--|--|
| 12.29 | In almost all Indian met | c pollutant (s) is/ard | | | | | | | |
| | (1) Oxides of sulphur (3) Suspended particula | ate matter (SPM) | (2) Carbon dioxide an(4) Oxides of nitrogen | | (AIIMS-2008) e | | | | |
| 13.১೩ | Rain is called acid-rain (1) 7 | when its pH is below (2) 6.5 | (3) 6 | (4) 5.6 | (AIIMS-2009) | | | | |
| 14.১ | In the environment, ozo (1) Harmful effects | one is known for its (2) Useful effects | (3) Both (1) and (2) | (4) Inert nature | (AIIMS-2013) | | | | |
| 15.2 | (3) Its gene pool will be | will become scarce e safe for man and dom | | | (AIIMS-2013) | | | | |
| 16.29. | (2) The greater the BO(3) The lesser the BOD | D of waste water, more D of waste water, less is of waste water, more is | s its polluting potential. | | (AIIMS 2013) | | | | |
| 17.2 | (4) The lesser the BOD of waste water, less is its polluting potential. Which one of the following pairs is mismatched? (1) Fossil fuel burning – release of CO₂ (2) Nuclear power – radioactive wastes (3) Solar energy – green house effect (4) Biomass burning – release of CO₂ | | | | | | | | |
| 18.29. | Plants do not get benef (1) N ₂ in air | fit from (2) O₂ in air | (3) CO ₂ in air | (4) O₃ in air | (AIIMS 2014) | | | | |
| 19.১ | Photochemical smog for (1) ozone, peroxyacyl r (2) smoke, peroxyacyl (3) hydrocarbons, SO ₂ (4) hydrocarbons, ozon | nitrate and NO ₂ nitrate and SO ₂ and CO ₂ | ropolitan cities mainly co | onsists of | (AIIMS 2014) | | | | |
| 20. | One green house gas respectively identified a (1) N ₂ O and CO ₂ (3) Methane and CO ₂ | | I global warming and ar (2) CFCs and N₂O (4) Methane and CFC | | 6%. These are (AIIMS 2016) | | | | |
| 21 | Which one option is ecosystem? | incorrectly matched | regarding biological m | agnification of DI | DT in aquatic (AIIMS-2017) | | | | |

(1) Small fish - 0.5 ppm
(2) Large fish - 2ppm
(3) Fish-eating birds - 25 ppm
(4) Zooplankton - 0.003 ppm

- 22._ Which of the following is not related with electrostatic preciptator and scrubber (AIIMS-I-2018)
 - (1) 99 % particulate matter is removed by it
- (2) SO₂
- (3) Vapours containing mercury
- (4) Oxides of nitrogen
- Which one of the following options correctly designate the per cent contribution of gases (A, B, C and D) responsible of global warming? (AIIMS-II-2018)



| | Α | В | С | D |
|-----|------------------------|------------------------|-----------------------|-----------------------|
| (1) | CH ₄ (20%) | CFCs (14%) | N ₂ O (6%) | CO ₂ (60%) |
| (2) | CFCs (20%) | CO ₂ (14%) | N ₂ O (6%) | CH ₄ (60%) |
| (3) | N ₂ O (20%) | CH ₄ (14%) | CFCs (6%) | CO ₂ (60%) |
| (4) | CH ₄ (20%) | N ₂ O (14%) | CFCs (6%) | CO ₂ (60%) |

24._ Bio magnification refers to:

(AIIMS-III-2018)

- (1) Breeding of crops that are rich in minerals and vitamins, good proteins and healthier fats for human health
- (2) Increase in concentration of the toxicant at successive trophic levels.
- (3) Exploring at molecular, Genetic and species level diversity for the products of economic importance
- (4) Decomposition of organic waste in water by the action of microbes
- 25._ Lichens are best indicator of -

(AIIMS-III-2018)

- (1) Air pollution
- (2) Water pollution
- (3) Soil pollution
- (4) Noise pollution

26._ Fishes in eutrophic lake is died due to

(AIIMS-IV-2018)

- (1) Oxygen
- (2) Nutrient enrichment (3) CO₂
- (4) None
- **27.** Which gases are responsible for increasing the temperature of atmosphere?

(AIIMS-IV-2019)

- (1) CO, NO₂, H₂S
- (2) CO₂, CO, NO
- (3) CH₄, CO₂, N₂O
- (4) NO₂, H₂S, CO₂

| Answers | | | | | | | | | | | | | |
|--|---|--|---|---|--|--|--|--|---|--|--|---|--|
| | | | | | | EXER | CISE - | 1 | | | | | |
| SECTION - A | | | | | | | | | | | | | |
| 1. 8. 15. 22. 29. 36. 43. | (4) (4) (1) (2) (2) (2) (2) | 2. 9. 16. 23. 30. 37. 44. | (1) (2) (3) (3) (4) (1) (1) | 3. 10. 17. 24. 31. 38. 45. | (1) (1) (2) (3) (1) (4) (4) | 4. 11. 18. 25. 32. 39. 46. | (2) (1) (2) (4) (1) (4) (2) | 5. 12. 19. 26. 33. 40. | (1) (1) (1) (1) (2) (3) (2) | 6. 13. 20. 27. 34. 41. | (1) (3) (3) (3) (3) (1) (3) | 7. 14. 21. 28. 35. 42. | (4) (4) (4) (2) (2) (1) |
| SEC1 | TION - B | | | | | | | | | | | | |
| 1. 8. 15. | (4) (4) (2) | 2. 9. 16. | (4) (1) (3) | 3. 10. 17. | (2) (2) (2) | 4. 11. | (4) (2) | 5. 12. | (1) (4) | 6. 13. | (2) (1) | 7. 14. | (2) (4) |
| | | | | M | ISCEL | LANE | DUS Q | UESTI | ONS | | | | |
| 1. 8. 15. 22. 29. | (1) (4) (4) (4) (3) | 2. 9. 16. 23. 30. | (1) (4) (1) (3) (3) | 3. 10. 17. 24. 31. | (1) (4) (1) (2) (1) | 4. 11. 18. 25. 32. | (3) (3) (3) (4) (1) | 5. 12. 19. 26. 33. | (2) (3) (4) (4) (4) | 6. 13. 20. 27. | (1) (2) (1) (3) | 7. 14. 21. 28. | (2) (2) (4) (3) |
| | | | | | | | OIOL | | | | | | |
| 1. | (3) | 2. | (2) | 3. | (2) | | | | | | | | |
| | | | | | | | CISE - | 3 | | | | | |
| 1. 8. 15. 22. 29. 36. 43. 50. | (2) (4) (3) (4) (2) (4) (4) (3) (4) | 2. 9. 16. 23. 30. 37. 44. 51. | (3) (3) (4) (3) (4) (4) (3) (3) (2) | 3. 10. 17. 24. 31. 38. 45. 52. | (2) (4) (3) (4) (1) (4) (2) (4) | 4. 11. 18. 25. 32. 39. 46. 53. 60. | (2) (3) (2) (2) (2) (3) (3) (4) (3) (3) | 5. 12. 19. 26. 33. 40. 47. 54. 61. | (3) (2) (3) (3) (2) (4) (4) (4) (4) | 6. 13. 20. 27. 34. 41. 48. 55 | (4) (4) (4) (4) (1) (3) (3) (1) | 7. 14. 21. 28. 35. 42. 49. 56. | (1) (3) (2) (1) (1) (1) (2) (1) |
| 1. 8. 15. 22. | (4) (2) (3) (3) | 2. 9. 16. 23. | (4) (1) (1) (1) | 3. 10. 17. 24. | (2) (3) (3) (2) | PA 4. 11. 18. 25. | (2) (2) (2) (4) (1) | 5. 12. 19. 26. | (2) (2) (1) (1) | 6. 13. 20. 27. | (1) (4) (2) (3) | 7. 14. 21. | (2) (3) (4) |