



BIOLOGY

NEET & AIIMS

ENVIRONMENTAL ISSUES

Example

1. Name the most widely used device to remove particulate matter.

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2. What is the unit of measuring the noise?

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3. What is Eutrophication ?



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4. Full forms of FOAM



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5. What is polyblend?



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6. What is incineration?



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7. Who has created the Haryana Kisan welfare club?



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8. Why is nuclear waste hazardous?



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9. How is snow-blindness caused in humans ?



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10. How does Jhum cultivation promote deforestation?



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1. Motor vehicles are equipped with electrostatic precipitators to reduce pollution

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2. According to Central Pollution Control Board particulate size $2.5 \mu m$ or less in diameter are responsible for causing greatest harm to human health.

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3. All the buses of Delhi were converted to run on CNG by the end of 2002

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4. A scrubber can remove gaseous pollutants like sulphur dioxide.



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5. As the exhaust passes through the catalytic converter, unburnt hydrocarbons are converted into carbon monoxide and water.



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6. Domestic sewage is a _____ pollutant.



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7. Biomagnification is well know for _____ and _____.



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8. The Government of India has passed the water (Prevention and Control of Pollution) act _____ to safeguard our water resources.

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9. The Marshes also constitute a sanctuary, with a _____ of diversity.

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10. e-waste include _____ and _____.

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11. The use of _____ crucial for disposal of hospital waste.

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12. _____ is adapted as substitute for open burning dumps.

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13. _____ is the only solution for the treatment of e-wastes.



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14. State Governments across the country are trying to push for reduction in the use of _____ and use of ecofriendly packaging.



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15. Integrated organic farming is non-cyclical.



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16. Nuclear waste is an extremely potent pollutant.



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17. The weakened radioactive wastes kept in shielded containers should be buried 50 m deep below the earth surface.

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18. Nuclear radiation is lethal even at high doses.

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19. Without greenhouse effect the average temperature at surface of Earth would have been a chilly _____ C rather than the present average of _____ C.

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20. Ozone gas is continuously formed by the action of _____ on molecular oxygen in the stratosphere.

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21. _____ radiation damages DNA.



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22. _____ and soil salinity are some of the problem that have come in the waste of the green revolution.



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23. According to an estimate almost 40 percent forests have been lost in the tropics compared to only 10 percent in the temperate region.



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24. Reforestation cannot occur naturally in a deforested area.



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25. During Chipko Movement of Garhwal Himalayas local men showed enormous bravery in protecting trees from the axe of contractors by hugging them.



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Exercise

1. Mark the odd one w.r.t. anthropogenic pollution

- A. Particulate matter by volcanoes
- B. Thermal power plant
- C. Flour mill dust
- D. Pesticides

Answer: A



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2. Select the incorret match

A. Biodegradable pollutant : Domestic sewage

B. Non-degrdable pollutant : DDT

C. Secondary pollutant : SO_2

D. Quantitative pollutant : Nitrogen oxides

Answer: C



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3. Which of the following pollutant induces respiratory distress, inhibit ETS in chloroplast and glazing of leaves?

A. H_2S

B. PAN

C. CO

D. NO_2

Answer: B



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4. Mark the correctly matched pair :

A. NO_x - Carcinogen

B. CO - Asphyxia

C. PAN - Primary pollutant

D. PAN - Classical smog

Answer: B



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5. Mark the correct statement (w.r.t. photochemical smog)

A. Also called classical smog

B. Formed in traffic congested cities where warm condition and intense solar radiation are present

C. Secondary pollutant and has no effect on vegetations

D. Occurs at low temperature and contains H_2S and SO_2

Answer: B



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6. The pH of the acid rain is approximately a) 5.6 b) 2 – 3 c) 7 – 9 d) > 10

A. 7

B. 6.56

C. 5.6

D. 11

Answer: C



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7. Which of the following device is used to remove over 99% particulate matter present in the exhaust from a thermal power plant?

- A. Electrostatic precipitator
- B. Scrubber
- C. Catalytic convertor
- D. Trajectory separator

Answer: A



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8. Euro norms and Bharat stages were given in new auto fuel policy for steadily reducing the _____ in petrol and diesel.

A. Sulphur and particulate matter

B. Sulphur and O_3

C. Sulphur and aromatic contents

D. Aromatic contents and NO_x

Answer: C



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9. Thinning of egg shells is a major effect in many species of predatory birds because of

A. Natural eutrophication

B. Cultural eutrophication

C. Biological magnification

D. Raduced BOD

Answer: C



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10. Select the correct option w.r.t. thermal pollution

A. Speeds up biodegradation of organic matter

B. Death of temperature sensitive organisms

C. It increases rate of metabolism and microbial activity

D. All of these

Answer: D



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11. Which of the following is an example of negative soil pollution?

- A. Addition of radioactive dust
- B. Addition of herbicides
- C. Deforestation
- D. Addition of industrial wastes

Answer: C



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12. Irreparable computers and other electronic goods are known as

- A. Radioactive wastes
- B. Chemical waste
- C. e-wastes
- D. Mist

Answer: C



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13. Select the incorret match

A. Incinerator : Aerobic burning at $900 - 1200^{\circ}C$

B. Pyrolysis : Aerobic burning at $1650^{\circ}C$

C. Sanitary landfills : Solid waste

D. Polyblend : Recycled modified plastic

Answer: B



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14. During the past century, the temperature of earth has increased by

A. $15^{\circ}C$

B. $33^{\circ}C$

C. $0.6^{\circ}C$

D. $1.6^{\circ}C$

Answer: C



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15. Integrated organic farming as zero-waste, cyclical procedure is related to

A. Ahmed Khan

B. Ramesh Chandra Dagar

C. Amrita Devi

D. C.P. Bhatt

Answer: B



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16. Snow blindness is caused by

- A. UV-B rays
- B. Global warming
- C. Radioactive pollution
- D. Deforestation

Answer: A



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17. Which of the following pollutant accumulates in the bones, replaces calcium and may cause bone cancer?

- A. Strontium - 90
- B. CO

C. NO_x

D. SPM

Answer: A



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18. What percentage of forest cover for the plains has been recommended by National Forest Policy (1988) of India?

A. 33

B. 67

C. 30

D. 19.4

Answer: A



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19. Which of the following pair does not represent greenhouse gases?

A. CO_2 and CH_4

B. CH_4 and N_2O

C. O_3 and SO_2

D. N_2 and $CFCs$

Answer: C



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20. Recognising the deleterious affects of ozone depletion, an international treaty, know as _____ was signed at _____.

A. Montreal Protocal, Canada

B. Kyoto Protocol, Brazil

C. Earth summit, Montrcal

D. World Summit, South Africa

Answer: A

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Assignment Section A

1. Compressed Natural Gas (CNG) is

- A. Butane
- B. Ethane
- C. Methane
- D. Propane

Answer: C

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2. The electrostatic precipitator can remove over _____% particulate matter.

A. 99

B. 100

C. 89

D. 45

Answer: A



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3. Find incorrect statement w.r.t. catalytic converter

A. Platinum-palladium and rhodium as catalysts

B. Lead in petrol activates the catalysts

C. Reduced the emission of poisonous gases

D. CO and NO_x changed to CO_2 and N_2 gas

Answer: B



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4. World's most problematic aquatic weed is

A. Trapa

B. Azolla

C. Wolffia

D. Eichhornia

Answer: D



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5. In the 1990s among the 41 most polluted cities of the world, Delhi ranked

- A. First
- B. Fourth
- C. Second
- D. Third

Answer: B



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6. By the end of 2002 in Delhi which step is completed for reducing vehicular pollution?

- A. Phasing out of old vehicles
- B. Uses of unleaded petrol

C. Buses were converted to run on CNG

D. Use of catalytic converters

Answer: C



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7. Match the column

Column I		Column II
a. Environment (Protection) Act	(i)	1988
b. Air (Prevention and Control of Pollution) Act	(ii)	1987
c. Water (Prevention and Control of Pollution) Act	(iii)	1981
d. Montreal Protocol	(iv)	1974
e. National Forest Policy	(v)	1986

A. a(v), b(ii), c(iv), d(i), e(iii)

B. a(v), b(ii), c(iv), d(ii), e(i)

C. a(i), b(iii), c(iv), d(v), e(ii)

D. a(i), b(ii), c(iv), d(v), e(iii)

Answer: B



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8. Ramesh Chandra Dagar includes _____ for case study of organic farming.

- A. Bee-keeping
- B. Dairy management
- C. Water harvesting
- D. All of these

Answer: D



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9. The domestic sewage in large cities

- A. Has a high BOD as it contains both aerobic and anaerobic bacteria

B. Is processed by aerobic and then anaerobic bacteria in the secondary treatment in Sewage Treatment Plants (STPs)

C. When treated in STPs does not really require the aeration step as the sewage contains adequate oxygen

D. Has very low amounts of suspended solids and dissolved salts

Answer: B



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10. Prime contaminants leading to cultural or accelerated eutrophication are

A. Fecal matter and paper fibres

B. Sand and clay

C. Phosphates and nitrates

D. Nitrates and sulphates

Answer: C



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11. Euro-II (April 2000) is the emission norm for reducing

- A. O_3 and CO
- B. NO_2 and N_2O
- C. Sulphur and aromatic hydrocarbons
- D. CO_2 and particulate matter

Answer: C



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12. Ecosanitation is

- A. Sustainable system for handling human excreta

- B. Sustainable system for handling agricultural wastes
- C. Sustainable system for handling industrial effluents
- D. Sustainable system for handling biomagnification

Answer: A

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13. Hospital wastes are

- A. Hazardous and disposed by incinerator
- B. Non-hazardous and disposed by incinerator
- C. Hazardous and disposed into water
- D. Non-hazardous and disposed into water

Answer: A

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14. In an aquatic food chain, if water body is having 0.003 ppb of DDT, its maximum concentration can be observed in

- A. Large fish
- B. Phytoplanktons
- C. Fish eating birds
- D. Small fish

Answer: C



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15. The raw material for making polyblend is

- A. Bitumen
- B. Plastic film waste
- C. Recycled plastic

D. Any biodegradable waste

Answer: B



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16. Integrated organic farming has been adopted in India by

A. Ramesh Chandra Dagar

B. Ahmed Khan

C. Panduranga Hegde

D. Amrita Devi

Answer: A



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17. During the past century, the temperature of earth has increased by

A. $15^{\circ}C$

B. $33^{\circ}C$

C. $0.6^{\circ}C$

D. $1.6^{\circ}C$

Answer: C



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18. What percentage of forest for hills has been recommended by National Forest Policy (1988) of India?

A. 33

B. 67

C. 19.4

D. 23

Answer: B



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19. Recognising the deleterious affects of ozone depletion, an international treaty, know as _____ was signed at _____.

- A. Montreal Protocal, Canada
- B. Kyoto Protocol, Brazil
- C. Earth summit, Montrcal
- D. World Summit, South Africa

Answer: A



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20. Snow blindness is caused by

- A. UV-A

B. UV-B

C. X-rays

D. UV-C

Answer: B



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21. The Government of India has introduced a concept to work closely with local communities for protection and management of forests called

A. Chipko movement

B. Jhum cultivation

C. Joint Forest Management

D. Appiko movement

Answer: C



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22. Match the column

Column I

Column II

- | | | |
|--------------------|-------|----------------------|
| a. Ozone thickness | (i) | UV-rays |
| b. CFC | (ii) | Refrigerator |
| c. El Niño effect | (iii) | Temperature increase |
| d. Skin cancer | (iv) | Dobson unit |

A. a(i), b(ii), c(iii), d(iv)

B. a(ii), b(iii), c(iv), d(i)

C. a (iv), b(ii), c(iii), d(i)

D. a(iii), b(iv), c(ii), d(i)

Answer: C



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23. Chipko movement is related to conservation of forests in

A. Garhwal Himalayan

B. South India

C. Rajasthan

D. Gujarat

Answer: A



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24. Jhum cultivation leads to

A. Afforestation

B. Deforestation

C. Soil pollution

D. Conservation of forests

Answer: B



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25. Overcultivation and unrestricted grazing are examples of

- A. Improper resource utilisation
- B. Deforestation
- C. Jhum cultivation
- D. Greenhouse effect

Answer: A



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26. Algal bloom in a lake

- A. Increases CO_2 level
- B. Leads to oxygen depletion
- C. Kills fishes

D. All of these

Answer: D



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27. Thermal pollution, is more prevalent near

- A. Hot water springs
- B. Coal based power plants
- C. Temperate zones
- D. Tropical zones

Answer: B



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28. The most hazardous metal pollutant of automobile exhaust is

A. Mercury

B. Copper

C. Arsenic

D. Lead

Answer: D



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29. The major source of noise pollution, world wide is due to:

A. Transport system

B. Oil refineries and thermal power plants

C. Sugar, textile and paper industries

D. Office equipment

Answer: A



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30. Pollutants which can be removed by a scrubber

- A. Particulate matter
- B. Unburnt hydrocarbon
- C. SO_2
- D. Sewage

Answer: C



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31. Consider the following statements

- a. 40% of the forest has been lost in tropics.
- b. JFM was introduced in 1965 by the UNCED
- c. Bishnoi community belongs to Odisha who played a major role in

conservation of forest.

d. Chipko movement started in Garhwal Himalayas.

A. a & c are correct

B. b & c are incorrect

C. c is correct

D. c & d are correct

Answer: B



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32. In a polluted lake

A. BOD and DO are high

B. BOD is high and DO is low

C. Both are low

D. BOD is low and DO is high

Answer: B



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33. Catalytic converters are fitted into automobiles to reduce emission of harmful gases. Catalytic convertes change unburnt hydrocarbons into

- A. Methane
- B. Carbon dioxide and methane
- C. Carbon monoxide
- D. Carbon dioxide and water

Answer: D



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34. Which of the following is correct ?

A. CFC is discharged in the lower part of the atmosphere, move upward and reach stratosphere

B. Montreal protocol was signed to reduce CO_2

C. Ozone hole is a small pore created in tropospheric ozone layer

D. Jhum cultivation is a method of afforestation

Answer: A



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35. Black foot disease occurs due to:

A. Oil spills

B. Arsenic

C. Copper

D. Mercury

Answer: B



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Assignment Section B

1. ____ is highly hazardous to animal health but on plants, this gas does not seem to show adverse effect.

A. CO

B. CO_2

C. SO_2

D. NO_2

Answer: A



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2. NO_x contributes to all, except

- A. Secondary pollutant formation
- B. Acid rains
- C. Pheophytization
- D. Photochemical smog

Answer: C



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3. Which of the following device can control air pollution ?

- A. Scrubbers
- B. Effluent treatment
- C. Electrostatic precipitator
- D. Both (1) & (3)

Answer: D



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4. Acoustic zoning is related with

- A. Soil pollution
- B. Noise pollution
- C. Water Pollution
- D. Air Pollution

Answer: B



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5. Which one of the following pair is not correctly matched ?

- A. NEERI - Nagpur

B. Byssinosis - Lung fibrosis due to iron particles

C. Hay fever - Skin allergy and asthma

D. Photochemical smog - Inhibits ETS

Answer: B



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6. Acid rain

(a) Causes necrosis

(b) Convert chlorophyll-a into pheophytin

(c) Responsible for the formation of PAN

A. Only (a) and (b) are correct

B. Only (b) and (c) are correct

C. Only (a) is correct

D. Only (c) is correct

Answer: A



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7. Which is not an effect of acidic rain in a pond

- A. Increased fungal growth
- B. Decreased insect population
- C. Increased growth of green algae
- D. NO_3^- & SO_4^{--} saturation

Answer: C



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8. A chemical weed in troposphere and protectant in stratosphere is

- A. CH_4

B. O_3

C. CFC

D. NO_2

Answer: B



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9. Eutrophication includes all, except

A. Heavy growth of BGA

B. Decreased DO

C. Death of submerged organism

D. Finally decreased COD

Answer: D



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10. the presence of E. coli in water indicates

- A. Water is clear
- B. Water is fully polluted
- C. Inorganic pollution
- D. Faecal pollution

Answer: D



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11. Release of phosphates and nitrates in water bodies like lakes lead to:

- A. Nutrient enrichment (eutrophication)
- B. Reduced algal growth
- C. Increased algal growth
- D. Increased growth of decomposers

Answer: C



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12. Spraying of pesticide is an example of

- A. Point source water pollution
- B. Diffuse water pollution
- C. Both (1) & (2)
- D. Pyrolysis

Answer: B



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13. Select the correct statement from the following

- A. A mere 0.1% impurities cannot make domestic sewage unfit for human use
- B. High concentrations of DDT disturb calcium metabolism in birds
- C. Phaeophytization in lichens is caused due to nitrogen oxides
- D. Bad' ozone as well as 'good' ozone both are found in the upper part of the atmosphere.

Answer: B



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14. Which one of the following pairs is not correct matched?

- A. Production of sulphur - Burning of coal
- B. Depletion of ozone - Release of CFCs in the atmosphere
- C. Eutrophication - Increase in nitrogen and phosphorus content in aquatic bodies

D. Decrease in BOD of pond water - Increase in global temperature

Answer: D



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15. Water pollution is best assessed by determining

A. DO

B. BOD and turbidity

C. DO and acidity

D. Hardness and alkalinity

Answer: B



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16. Non-point source of water pollution is

- A. Sewage outlet
- B. Effluent from a factory
- C. Agricultural runoff
- D. All of these

Answer: C



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17. DO (dissolved O_2) of water _____ with an increase in temperature.

- A. Decreases
- B. Increases
- C. Remains constant
- D. First increases then decreases

Answer: A



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18. The controlled aerobic combustion of wastes inside chambers at temperature of 900-1300°C is known as

- A. Incineration
- B. Recycling
- C. Pyrolysis
- D. Sanitary dumping

Answer: A



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19. Ecological backlash (or ecological boomerang) is

- A. Heat emission due to bomb explosim

- B. Production of useful ecological effect by a previously useful chemical
- C. Formation of secondary pollutant from reaction of primary pollutants
- D. Production of adverse ecological effect by a previously useful chemical

Answer: D



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20. Oil slick causes mass-scale death of fishes due to

- A. Clogging of gills
- B. Disruption of food chain
- C. Non-availability of food
- D. All of these

Answer: A



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21. Wastes may be sealed in concrete-filled drums and discharged to a depth of about 500 m. This specific statement is true for

- A. γ -radiation pollutants
- B. U.V. radiation pollutants
- C. β -particle pollutants
- D. All radioactive pollutants

Answer: D



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22. Select the incorrect statement for e-wastes

- A. Recycling is the only solution for treatment
- B. They are buried in landfills or incinerated
- C. Bulk of the waste is biodegradable
- D. Used to recover metals like copper, iron, silicon, nickel and gold

Answer: C



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23. Select incorrect match

- A. I.A.P. - Indian Atmospheric Pollution
- B. U.N.E.P. - United Nation's Environment Programme
- C. C.C.C. - Convention on Climate Change
- D. O.D.P. - Ozone Depleting Potential

Answer: A



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24. Reduction in soil fertility due to erosion is an example of

- A. Positive pollution
- B. Negative pollution
- C. Third pollution
- D. Landscape pollution

Answer: B



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25. The e-wastes

- A. Represents municipal solid
- B. Is produced in developing countries and exported to developed countries

C. Are buried in land fills or incinerated

D. Does not involve recycling

Answer: C



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26. Which is not an effect of global warming?

A. More extreme weather condition

B. Poleward shifting of organism

C. Rise of sea level

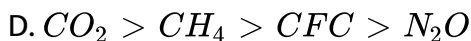
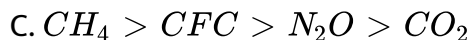
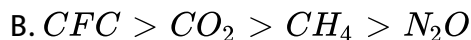
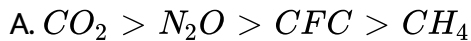
D. Good fungal growth in soil

Answer: D



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27. Arrange CFC , CH_4 , N_2O , and CO_2 in decreasing order according to their contribution in greenhouse effect:



Answer: D



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28. Consider the following statements and select correct set w.r.t. global warming

(a) El Nino effect

(b) Cooling of stratosphere and earth surface

(c) Shifting of climatic zones

(d) Snow blindness

- (e) Impairment of hearing
- (f) Excessive deposition of ice at poles
- (g) Rise in sea level
- (h) Increase in eutrophication

A. a, c, e, g & h

B. a, c, d, e, f & g

C. a, b, c, d, f & h

D. a, c & g

Answer: D



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29. Green -house gases are

A. Absorbers of long-wave radiations from earth

- B. Transparent to both solar radiations and long-wave radiations from earth
- C. Absorbers of solar radiations for warming the atmosphere
- D. Transparent to emissions from earth for passage into outer space

Answer: A



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30. Which of the Following conference obtained commitments from different countries for reducing overall greenhouse gas emission at a level 5% below 1990 level by 2008-2012?

- A. Kyoto Protocol, 1997
- B. Earth Summit, Rio-de-janeiro, 1992
- C. Montreal Protocol, 1987
- D. Helsinki Declaration, 1989

Answer: A



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31. Which one of the following was the objective of signing the 'Montreal protocol'?

- A. Protection of wild life
- B. Protection of ozone layer
- C. Control of noise pollution
- D. Control the over use of insecticides

Answer: B



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32. Prolonged water logging in an agricultural fields is likely to create the problem of

- A. Poor aeration and low salinity
- B. Poor aeration and high salinity
- C. Poor aeration and high acidity
- D. Metal toxicity and proper aeration

Answer: B

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33. Match the column-I with column-II

Column-I		Column-II
a. Pyrolysis	(i)	Methaeglobinemia
b. Carbon monoxide	(ii)	Chronic exposure to arsenic
c. Blue baby syndrome	(iii)	Asphyxia and giddiness
d. Black foot disease	(iv)	Disposal of hospital waste

A. a(iv), b(i), c(ii), d(iii)

B. a(i), b(iii), c(iv), d (ii)

C. a(iv), b(iii), c(i), d(ii)

D. a(iv), b(iii), c(i), d(ii)

Answer: D



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34. Blue-baby syndrome is due to

A. Air pollution

B. Soil pollution

C. Thermal pollution

D. Radioactive pollution

Answer: B



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35. Agenda-21 was adopted in

- A. Kyoto protocol
- B. Earth summit
- C. Helsinki declaration
- D. Montreal protocol

Answer: B



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Assignment Section C

1. Which one of the following statements is not valid for aerosols?

- A. They are harmful to human health
- B. They alter rainfall and monsoon patterns
- C. They cause increased agricultural productivity
- D. They have negative impact on agricultural land

Answer: C



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2. Biochemical Oxygen Demand (BOD) may not be a good index for pollution for water bodies receiving effluents from

- A. Domestic sewage
- B. Dairy industry
- C. Petroleum industry
- D. Sugar industry

Answer: C



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3. A lake which is rich in organic waste may result in

- A. Increased population of aquatic organisms due to minerals
- B. Drying of the lake due to algal bloom
- C. Increased population of fish due to lots of nutrients
- D. Mortality of fish due to lack of oxygen

Answer: D



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4. The highest DDT concentration in aquatic food chain shall occur in:

- A. Phytoplankton
- B. Seagull
- C. Crab
- D. Eel

Answer: B



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5. A river with an inflow of domestic sewage rich in organic waste may result in

- A. Death of fish due to lack of oxygen
- B. Drying of the river very soon due to algal bloom
- C. Increased population of aquatic food web organisms
- D. An increased production of fish due to biodegradable nutrients

Answer: A



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6. Joint Forest Management Concept was introduced in India during

- A. 1990s
- B. 1960s

C. 1970s

D. 1980s

Answer: D



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7. Eutrophication of water bodies leading to killing of fishes is mainly due to non-availability of:

A. Oxygen

B. Food

C. Light

D. Essential minerals

Answer: A



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8. Acid rain is caused by increase in the atmospheric concentration of :

A. O_3 and dust

B. SO_2 and NO_2

C. SO_3 and CO

D. CO_2 and CO

Answer: B



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9. Increase in concentration of the toxicant at successive trophic levels is known as:

A. Biogeochemical cycling

B. Biomagnification

C. Biodeterioration

D. Biotransformation

Answer: B



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10. The UN Conference of Parties on climate change in the year 2012 was held at:

A. Warsaw

B. Durban

C. Doha

D. Lima

Answer: C



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11. High value of BOD (Biochemical Oxygen Demand) indicates that:

- A. Consumption of organic matter in the water is higher by the microbes
- B. Water is pure
- C. Water is highly polluted
- D. Water is less polluted

Answer: C



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12. The UN Conference of Parties on climate in the year 2011 was held in:

- A. Qatar
- B. Poland
- C. South Africa

D. Peru

Answer: C



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13. Rachel Carson's famous book "Silent Spring" is related to:

A. Ecosystem management

B. Pesticide pollution

C. Noise pollution

D. Population explosion

Answer: B



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14. A scrubber in the exhaust of a chemical industrial plant removes:

- A. Gases like sulphur dioxide
- B. Particulate matter of the size 5 micrometer or above
- C. Gases like ozone and methane
- D. Particulate matter of the size 2.5 micrometer or less

Answer: A



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15. A location with luxuriant growth of lichens on the trees indicates that the

- A. Trees are very healthy
- B. Trees are heavily infested
- C. Location is highly polluted
- D. Location is not polluted

Answer: D



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16. The zone of atmosphere in which the ozone layer is present is called:

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

Answer: C



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17. Global warming can be controlled by:

- A. Reducing reforestation, increasing the use of fossil fuel

B. Increasing deforestation slowing down the growth of human population

C. Increasing deforestation, reducing efficiency of energy usage

D. Reducing deforestation, cutting down use of fossil fuel

Answer: D



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18. The Air Prevention and Control of Pollution Act came into force in:

A. 1981

B. 1985

C. 1990

D. 1975

Answer: A



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19. Kyoto Protocol was endorsed at:

- A. CoP-5
- B. CoP-6
- C. CoP-4
- D. CoP-3

Answer: D



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20. Which one of the following is a wrong statement?

- A. Greenhouse effect is a natural phenomenon
- B. Eutrophication is a natural phenomenon in freshwater bodies
- C. Most of the forests have been lost in tropical areas

D. Ozone in upper part of atmosphere is harmful to animals

Answer: D



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21. In an area where DDT had been used extensively, the population of birds declined significantly because:

- A. Cobras were feeding exclusively on birds
- B. Many of the birds eggs laid, did not hatch
- C. Birds stopped laying eggs
- D. Earthworms in the area got eradicated

Answer: B



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22. Which one of the following statement is wrong in case of Bhopal tragedy ?

- A. It took place in the night of December 2/3, 1984.
- B. Methyl Isocyanate gas leakage took place
- C. Thousands of human beings died
- D. Radioactive fall out engulfed Bhopal

Answer: D



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23. Which one of the following pairs of gases are the major cause of "Greenhouse effect" ?

- A. CO_2 and N_2O
- B. CO_2 and O_3

C. CO_2 and CO

D. CFCs and SO_2

Answer: A



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24. "Good ozone" is found in the

A. Stratosphere

B. Ionosphere

C. Measosphere

D. Troposphere

Answer: A



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25. Eutrophication of often seen in:

- A. Mountains
- B. Deserts
- C. Fresh water lakes
- D. Ocean

Answer: C



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26. The two gases making highest relative contribution to the greenhouse gases are:

- A. CO_2 and N_2O
- B. CO_2 and CH_4
- C. CH_4 and N_2O

D. CFC_5 and N_2O

Answer: B



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27. When domestic sewage mixes with river water

- A. Small animals like rats will die after drinking river water
- B. The increased microbial activity releases micronutrients such as iron.
- C. The increased microbial activity uses up dissolved oxygen
- D. The river water is still suitable for drinking as impurities are only about 0.1%

Answer: C



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28. dB is a standard abbreviation used for the quantitative expression of :

- A. A certain pesticide
- B. The density of bacteria in a medium
- C. A particular pollutant
- D. The dominant Bacillus in a culture

Answer: C



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29. Global agreement in specific control strategies to reduce the release of ozone depleting substances was adopted by:

- A. The Montreal Protocol
- B. The Koyoto Protocol

C. The Vienna Convention

D. Rio de Janeiro Conference

Answer: A

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30. Steps taken by government of India in controlling air pollution are

- A. Compulsory PUC (Pollution Under Control) certification of petrol driven vehicles which tests for carbon monoxide and hydrocarbons
- B. Permission to use only pure diesel with a maximum of 500 ppm sulphur as fuel for vehicles
- C. Use of non-polluting Compressed Natural Gas (CNG) only as fuel by all buses and trucks

D. Compulsory mixing of 20% ethyl alcohol with petrol and 20% biodiesel with diesel

Answer: A



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31. Montreal protocol aims at:

- A. Biodiversity conservation
- B. Control of water pollution
- C. Control of CO_2 emission
- D. Reduction of ozone depleting substances

Answer: D



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32. Biochemical oxygen demand (BOD) in a river water

- A. Has no relationship with concentration of oxygen in the water
- B. Gives a measure of Salmonella in the water.
- C. Increases when sewage gets mixed with river water.
- D. Remains unchanged when algal bloom occurs.

Answer: C



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33. "Chipko movement" was launched for the protection of :

- A. Forests
- B. Livestock
- C. Wet lands
- D. Grasslands

Answer: A



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34. DDT residues are rapidly passed through food chain causing biomagnification because DDT is

- A. Moderately toxic
- B. Non-toxic to aquatic animals
- C. Water soluble
- D. Lipo soluble

Answer: D



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35. Which one of the following in the correct percentage of the two (out of the total of 4) green house gases that contribute to the total global

warming?

A. Methane 20%, N_2O 18%

B. CFCs 14%, Methane 20%

C. CO_2 40%, CFCs 30%

D. N_2O 6% , CO_2 86%

Answer: B



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36. The World Summit on sustainable development held in 2002 in.....

A. South Africa

B. Brazil

C. Sweden

D. Argentina

Answer: A



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37. According to Central Pollution Control board (CPCB). Which particulate size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health?

- A. 5.2 - 2.55
- B. 2.5 or less
- C. 1.5 or less
- D. 1.0 or less

Answer: B



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38. A lake near a village suffered heavy mortality of fishes within a few days. Consider the following reasons for this?

(a) Lots of urea and phosphate fertilizers were used in the crops in the vicinity.

(b) The area was sprayed with DDT by an aircraft.

(c) The lake water turned green and stinky.

(d) Phytoplankton population in the lake declined initially thereby greatly reducing photosynthesis. Which two of the above were the main causes of fish mortality in the lake?

A. a, b

B. b, c

C. c, d

D. a, c

Answer: D



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39. In which one of the following the BOD (Biochemical Oxygen Demand) of sewage (S), distillery effluent (DE), paper mill effluent (PE) and sugar mill effluent (SE) have been arranged in ascending order ?

A. S It DE It PE It SE

B. SE It S It PE It DE

C. SE It PE It S It DE

D. PE It S It SE It DE

Answer: B



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40. In a coal-fired power plant, electrostatic precipitators are installed to control the emission of

A. CO

B. SO_2

C. NO_x

D. SPM

Answer: D



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41. Which one of the following is no bioindicator of water pollution?

A. Sewage fungus

B. Sludge-worms

C. Blood-worms

D. Stone files

Answer: D



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42. Montreal protocol which calls for appropriate action to protect the ozone layer from human activities was passed in the year:

- A. 1986
- B. 1987
- C. 1988
- D. 1985

Answer: B



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43. Photochemical smog does not contain

- A. Ozone
- B. Nitrogen dioxide
- C. Carbon dioxide

D. PAN (Peroxy Acyl Nitrate)

Answer: C



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44. Limit of BOD prescribed by Central Pollution Control Board for the discharge of industrial and municipal waste water into natural surface water:

- A. It 3.0 ppm
- B. It 10 ppm
- C. It 100 ppm
- D. It 30 ppm

Answer: D



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45. More than 70% of world's fresh water is contained in

- A. Antarctica
- B. Glaciers and Mountains
- C. Greenland
- D. Polar ice

Answer: D



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46. Which one of the following pairs is mismatched?

- A. Biomass burning - release of CO_2
- B. Fossil fuel burning - release of CO_2
- C. Nuclear power - radioactive wastes
- D. Solar energy - green house effect

Answer: D



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47. Identify the correctly matched pairs

- A. Montreal protocol - Global warming
- B. Kyoto protocol - Climatic change
- C. Ramsar convention - Ground water pollution
- D. Basal convention - Biodiversity conservation

Answer: B



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48. Which of the following is not used for disinfection of drinking water?

- A. Phenyl

B. Chloramine

C. Chlorine

D. Ozone

Answer: A



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49. Prolonged liberal irrigation of agricultural fields is likely to create the problem of

A. Acidity

B. Aridity

C. Metal toxicity

D. Salinity

Answer: D



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50. The toxic effect of carbon monoxide is due to its greater affinity for haemoglobin as compared to oxygen approximately by

- A. 200 times
- B. 1000 times
- C. 2 times
- D. 20 times

Answer: A



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51. Which of the following is a secondary pollutant

- A. PAN
- B. Aerosol

C. CO

D. CO_2

Answer: A



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52. Which one of the following is not correct with regard to the harmful effects of particulate matter of the size 2.5 micro meters or less?

- A. It can be inhaled into the lungs
- B. It can cause respiratory problems
- C. It can directly enter into our circulatory system
- D. It can cause inflammation and damage to the lungs

Answer: C



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53. Which is the cause of damage to relative biological effectiveness:

A. High temperature

B. Pollution

C. Radiation

D. Low temperature

Answer: B



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54. The domestic sewage in large cities

A. Has a high BOD as it contains both aerobic and anaerobic bacteria

B. Is processed by aerobic and then anaerobic bacteria in the secondary treatment in Sewage Treatment Plants (STPs)

- C. When treated in STPs does not really require the aeration step as the sewage contains adequate oxygen
- D. Has very high amounts of suspended solids and dissolved salts

Answer: B

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55. Which among the following is likely to have the highest levels of DDT deposition in its body ?

- A. Sea gull
- B. Phytoplankton
- C. Eel
- D. Crab

Answer: A

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56. Sounds above what level are considered hazardous noise pollution?

- A. Above 80 dB
- B. Above 30 dB
- C. Above 150 dB
- D. Above 120 dB

Answer: A



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57. A disease caused by eating fish contaminated by industrial waste, containing mercury compounds, is called as

- A. Osteosclerosis
- B. Hashimoto's disease

C. Bright's disease

D. Minimata disease

Answer: D



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58. When huge amount of sewage is dumped into a river the BOD will:

A. Slightly decrease

B. Remain unchanged

C. Increase

D. Decrease

Answer: C



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59. Taj mahal is threatened by pollution from

- A. Oxygen
- B. Hydrogen
- C. Chlorine
- D. Sulphur dioxide

Answer: D



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60. In Minamata Bay, Japan which of the following animals remained free from "Minamata disease"?

- A. Dogs
- B. Cats
- C. Pigs

D. Rabbits

Answer: D



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61. Which of the following isotopes is most dangerous to Homo sapiens?

A. Phosphours - 32

B. Strontium - 90

C. Casesium - 137

D. Iodine - 131

Answer: B



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62. Common indicator organism of water pollution is

A. *C. vibrio*

B. *Entamoeba histolytica*

C. *E. coli*

D. *P. typhi*

Answer: C



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63. Phosphate pollution is caused by

A. Sewage and phosphate rock

B. Sewage and agricultural fertilizers

C. Phosphate rock only

D. Agricultural fertilizers only

Answer: B



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64. Minamata human disease is caused by pollution of water by

A. Cyanide

B. Methyl isocyanate

C. Lead

D. Mercury

Answer: D



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65. D.D.T. is

A. Not a pollutant

- B. An antibiotic
- C. A non-biodegradable pollutant
- D. A biodegradable pollutant

Answer: C

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66. The maximum biomagnification would be in which of the following in case of aquatic ecosystem?

- A. Zooplanktons
- B. Phytoplanktons
- C. Fishes
- D. Kelps

Answer: C

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67. What is B.O.D.:-

- A. The amount of O_2 utilized by organisms in water
- B. The amount of O_2 utilized by microorganisms for decomposition
- C. The total amount of O_2 present in water
- D. All of these

Answer: B



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68. Which of the following is absent in polluted water?

- A. Hydrilla
- B. Water hyacinth
- C. Larva of stone fly

D. Blue green algae

Answer: C



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69. What is the intensity of sound during normal conversation?

A. 10-20 deciBel

B. 30-60 deciBel

C. 70-90 deciBel

D. 120-150 deciBel

Answer: B



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70. Fluoride pollution mainly affects

A. Brain

B. Heart

C. Teeth

D. Kidney

Answer: C



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71. Escherichia coli is used as an indicator organism to determine pollution of water with:

A. Heavy metals

B. Faecal matter

C. Industrial effluents

D. Pollen of aquatic plants

Answer: B



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72. Lead concentration of blood is considered alarming at

- A. $20 \mu\text{g} / 100 \text{ ml}$
- B. $30 \mu\text{g} / 100 \text{ ml}$
- C. $4\text{-}6 \mu\text{g} / 100 \text{ ml}$
- D. $10 \mu\text{g} / 100 \text{ ml}$

Answer: B



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73. Which of the following is not used for disinfection of drinking water?

- A. Chlorine
- B. Ozone

C. Chloramine

D. Phenyl

Answer: D



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74. Which of the following organism is likely to have more concentration of D.D.T. in its body?

A. Top carnivores

B. Primary producers

C. Herbivores

D. Carnivores

Answer: A



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75. Climate of the world is threatened by

- A. Increasing concentration of atmospheric oxygen
- B. Decreasing amount of atmospheric oxygen
- C. Increasing amount of atmospheric carbondioxide
- D. Decreasing amount of atmospheric carbondioxide

Answer: C



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76. Which of the following contribute to green house effect?

- A. Carbon dioxide
- B. Chlorofluoro carbon
- C. Freon
- D. Methane

Answer: A



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77. The true statement about "greenhouse effect" is that it is caused by:

- A. Caused by CO_2 , Cl_4 and HFC
- B. Caused only by CO_2
- C. Caused by CO_2 , CFC , CH_4 and NO_2 gases
- D. None of these

Answer: C



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78. Country contributed maximum to hole formation in ozone layer is

- A. Russia

B. Japan

C. USA

D. Germany

Answer: C



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79. In the coming years, skin related disorders will be more common due to :

A. Water pollution

B. Depletion of ozone layer

C. Pollutants in air

D. Use of detergents

Answer: B



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80. Ozone hole is maximum over

- A. Europe
- B. Africa
- C. India
- D. Antarctica

Answer: D



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81. The supersonic jets cause pollution by thinning of:

- A. O_2 layer
- B. O_3 layer
- C. CO_2 layer

D. SO_2 layer

Answer: B



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82. If there was no carbon dioxide in the Earth's atmosphere, the temperature of Earth's surface would be :

- A. Higher than the present
- B. Dependent on the amount of oxygen in the atmosphere
- C. Same as present
- D. Less than the present

Answer: D



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83. Which important green house gas other than methane is being produced from the agricultural fields ?

- A. Ammonia
- B. Nitrous oxide
- C. Arsine
- D. Sulphur dioxide

Answer: B



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84. Green house effect refers to

- A. Production of cereals
- B. Warming of earth
- C. Cooling of earth

D. Trapping of UV rays

Answer: B



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85. Maximum green house gases are released by which of the following country?

A. India

B. France

C. USA

D. Britain

Answer: C



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86. Warm ocean surge or Peru current that recurs after 5-8 years in East Pacific along South America is

- A. El Niño
- B. Aye Aye
- C. Magnox
- D. Gulf Stream

Answer: A



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87. The second commitment period for Kyoto Protocol was decided at

- A. Cancun
- B. Durban
- C. Bali

D. Doha

Answer: D



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88. At present, the concentration of CO_2 in the atmosphere is about:

A. 100 ppm

B. 240 ppm

C. 380 ppm

D. 520 ppm

Answer: C



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89. MIC and Chernobyl tragedies occurred at:

A. Bhopal 1984, Ukrain 1986

B. Bhopal 1986, Russia 1988

C. Bhopal 1984, Ukrain 1990

D. Bhopal 1984, Ukrain 1988

Answer: A



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90. In 1984, Bhopal gas tragedy was caused due to leakage of

A. Potassium isocyanate

B. Methyl isocyanate

C. Carbon monoxide

D. None of these

Answer: B



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91. In 1984 the Bhopal gas tragedy took place because methyl isocyanate reacted with:

- A. Reacted with DDT
- B. Reacted with ammonia
- C. Reacted with CO_2
- D. Reacted with water

Answer: D

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92. Which of the following is the main factor of desertification?

- A. Over-grazing
- B. Tourism

C. Irrigated agriculture

D. All of these

Answer: A



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Assignment Section D

1. A : Euro-II norms are framed to reduce the content of CO and aromatic compounds from fuels.

R : These compounds lead to reduce visibility and carboxyhemoglobin formation.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: D



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2. A : Nitrate and phosphate discharge in a water body causes eutrophication.

R : This increases the inorganic content in water body and hence growth of algal blooms

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: A



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3. A : Biomagnification of DDT can enhance the decline in bird population.

R : DDT causes thickening of egg shell and their delayed breaking by disturbing calcium metabolism.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: C



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4. Assertion: Ecological sanitation is a sustainable system for handling human excreta.

Reason: It is a practical and hygienic method of using dry composting toilets.

- A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).
- B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).
- C. If Assertion is true statement but Reason is false, then mark (3).
- D. If both Assertion and Reason are false statements, then mark (4).

Answer: A



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5. A : El Nino is a climatic change which causes deleterious environmental changes.

R : Increased trophospheric ozone due to El Nino cause shift of climatic regions.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are ture but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: C



6. A : ESP can remove the particulate matter by more than 99%.

R : Anode attract the partioles and provie positive charge the same & allow them to fall.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are ture but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: C



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7. A : Montreal protocol suggested the reduction of ODS.

R : A land mark international agreement taken in Earth summit held at Rio de Janeiro.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: C

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8. A : High concentration of atmospheric SO_2 reduces primary productivity.

R : SO_2 converts the chlorophyll a into phaeophytin.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: A



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9. A : Intensive agriculture leads to negative soil pollution.

R : It increases useful mineral contents in top layer of soil.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: C



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10. A : Irrigation without proper drainage of water leads to water logging in the soil.

R : Water logging results in increased soil salinity.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: B



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11. A : PAN is a secondary pollutant.

R : PAN is formed by interaction of nitrogenoxides and hydrocarbon in the absence of light.

- A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).
- B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).
- C. If Assertion is true statement but Reason is false, then mark (3).
- D. If both Assertion and Reason are false statements, then mark (4).

Answer: C



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12. A : Taj Mahal is being destroyed by SO_2 coming from Mathura refinery.

R : This converts $CaCO_3$ into unstable calcium sulphate.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: A



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13. A : A few toxic substance often present in industrial waste waters undergo biological magnification.

R : A toxic substance can easily be metabolised or excreted by organism.

- A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).
- B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).
- C. If Assertion is true statement but Reason is false, then mark (3).
- D. If both Assertion and Reason are false statements, then mark (4).

Answer: C



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14. A : High concentration of atmospheric SO_2 and NO_x causes acid rain.

R : It causes damage to foliage and growing points of plant.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: B



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15. A : Polyblend is a fine powder of recycled plastics.

R : The blend of polyblend and bitumen, helped to increase road life by a factor of three.

A. If both Assertion & Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion & Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true statement but Reason is false, then mark (3).

D. If both Assertion and Reason are false statements, then mark (4).

Answer: B



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