



CHEMISTRY

BOOKS - NTA MOCK TESTS

ENVIRONMENTAL CHEMISTRY TEST

Chemistry

1. Eutrophication causes reduction in

A. Nutrients

B. Dissolved salts

C. Dissolved oxygen

D. All of these

Answer: C



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2. Which of the following does not cause water pollution?

A. A Heavy metals such as Cd, Pb and Hg

B. Detergents

C. Polychlorobiphenyls

D. Freons

Answer: D



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3. What does BOD_5 represent?

A. Biological ozone depletion in five days

B. Dissolved oxygen left after five days

C. Dissolved oxygen consumed in five days

D. Micro-organisms killed by ozone in
sewage treatment plants in five hours

Answer: C



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4. Eutrophication of a lake means, it

A. is low in nutrients

B. is high in nutrients

C. Has excess amount of organic matter

D. Has a high temperature

Answer: B



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5. Identify the wrong statements in the following.

A. Chlorofluorocarbons are responsible for ozone layer depletion.

B. Green house effect is responsible for global warming.

C. Ozone layer does not permit infrared radiation from the Sun to reach the earth.

D. Acid rain the is mostly because of oxides of nitrogen and sulphur.

Answer: C



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6. Negative soil pollution is

A. Reduction in soil productivity due to erosion and over use

B. Reduction in soil productivity due to addition of pesticides and industrial wastes

C. Converting fertile land into barren land by dumping ash, sludge and garbage

D. None of the above

Answer: A



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7. Minamata disease is due to pollution of

A. Organic waste into drinking water

B. oil spill in water

C. Industrial waste mercury into fishing
water

D. Arsenic into the atmosphere

Answer: C



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8. The ozone layer forms naturally by

A. The interaction of CFC with oxygen.

B. The interaction of UV radiation with oxygen.

C. The interaction of IR radiation with oxygen.

D. The interaction of oxygen and water vapour.

Answer: B



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9. The water pollutants mainly responsible for the eutrophication are

A. Cd, Pb and Hg present in industrial waste.

B. Heavy metals present in mining waste.

C. Detergents and fertilizers containing phosphate anion.

D. Polychlorinated biphenyls.

Answer: C



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10. Green chemistry involves

A. production of chemicals of our daily use
from green house gases.

B. such chemical processes in which green
plants are used.

C. those reactions which are of biological
origin.

D. use of non toxic reagents and solvents
to produce environment friendly
products.

Answer: D



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11. Which one of the following is not an application of green chemistry?

A. Replacement of CFCs by CO_2 as blowing agent in the manufacture of polystyrene foam sheets.

B. Reacting methylamine and phosgene to produce methyl isocyanate.

C. Replacement of organotin compounds by 'sea nine'

as anti fouling compound in sea marines.

D. Catalytic dehydrogenation of the

diethanol amine without using cyanide and formaldehyde.

Answer: B



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12. The point of temperature inversion between troposphere and ionosphere is called

A. Stratopause

B. Mesopause

C. Tropopause

D. Ionopause

Answer: C



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13. Which of the following statements is false?

A. The main reason for river water pollution is industrial and domestic sewage discharge

B. Surface water contains a lot of organic matter, mineral nutrients and radioactive materials

C. Oil spill in sea water causes heavy damage to fishery

D. Oil slick in a seawater increases DO value

Answer: D



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14. Identify the incorrect statement from the following

- A. Oxides of nitrogen in the atmosphere can cause the depletion of ozone layer
- B. Ozone absorbs the intense ultraviolet radiations of the sun.

C. Depletion of ozone layer is because of its chemical reactions with chlorofluoro alkanes.

D. Ozone absorbs infrared radiations.

Answer: D



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15. Which of the following is not a herbicide?

A. Sodium chlorate

B. Sodium arsenite

C. Polyphosphate

D. Triazines

Answer: C



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16. Acid rains are produced by

A. Excess NO_2 and SO_2 from burning

fossil fuels

B. Excess production of NH_3 by industry
and coal gas

C. Excess release of carbon monoxide by
incomplete combustion

D. Excess formation of CO_2 by combustion
and animal respiration

Answer: A



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17. Which oxide of nitrogen is also known as laughing gas?

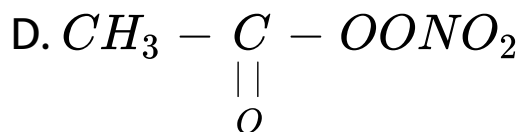
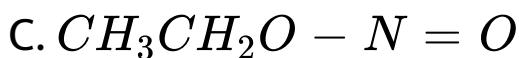
- A. Nitrous oxide
- B. Dinitrogen trioxide
- C. Dinitrogen tetroxide
- D. Nitric oxide

Answer: A



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18. PAN stands for



Answer: D



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19. The brown haze of photochemical smog is largely attributable to

A. NO

B. NO_2

C. CH_3COONO_2
||
O

D. $CH_2 = CHCH = O$

Answer: B



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20. Increasing skin cancer and high mutation rate are due to

- A. Acid rain
- B. Ozone depletion
- C. co pollution
- D. CO_2 pollution

Answer: B



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21. Which of the following is a sink for CO?

A. Haemoglobin

B. Microorganisms present in the soil

C. Oceans

D. Plants

Answer: B



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22. Pick out the correct statement?

A. CO which is major pollutant resulting from the combustion of fuels in automobiles plays a major role in photochemical smog

B. Classical smog has an oxidising character while the photochemical smog is reducing in character

C. Photochemical smog occurs in day time
whereas the classical smog occurs in
early morning hours

D. During formation of smog the level of
ozone in the atmosphere goes down

Answer: D



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23. Assertion : Carbon monoxide combines with haemoglobin.

Reason: Co has more affinity for haemoglobin.

A. Assertion is True, Reason is True, Reason is correct explanation for Assertion

B. Assertion is True, Reason is True, Reason is not correct explanation for Assertion

C. Assertion is True, Reason is False

D. Assertion is False, Reason is True

Answer: A



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24. Pick up the correct statement

A. CO plays a major role in photochemical smog

B. London smog has an oxidising character whereas Los Angeles smog is reducing in nature

C. Classical smog is good for health but photochemical smog is not

D. Los Angeles smog Forms in day time whereas London smog forms in early morning hours

Answer: D



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25. Which of the following harmful effects is not caused by SO_2 ?

A. Asthma

B. Asphyxiation

C. Bronchitis

D. Chlorosis

Answer: B



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26. Which one of the following statements are incorrect regarding greenhouse effect?

A. It occurs due to high concentration of CO_2 in the atmosphere.

B. It results in warming up of earth

C. Gases like CH_4 $CFO's$ also contribute to greenhouse effect.

D. It would result in lowering the level of oceans due to evaporation of water

Answer: D



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27. A consequence of global warming may be

A. Increase in the average temperature of the earth.

B. Melting of the Himalayan Glaciers.

C. Increase in the biochemical oxygen demand.

D. Both (A) and (B).

Answer: D



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28. Which of the following are secondary pollutants?

A. CO , CO_2 , SO_2 , Hydrocarbon

B. SO_3 , O_3 , HNO_3 , H_2SO_4

C. Both (A) and (B)

D. None of the above

Answer: B



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29. In Antarctica, ozone depletion is due to the hydrolysis of

A. Acrolein

B. PAN

C. SO_2 and SO_3 .

D. Chlorine Nitrate

Answer: D



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30. The main constituents present in photochemical smog are

a. PAN

b. Unsaturated hydrocarbons

c. Acrolein

d. O_3

e. SO_2

A. a,b,c and d

B. a,c,d and e

C. a,d and e

D. a,b,c,d and e

Answer: A



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