



## BIOLOGY

### BOOKS - TRUEMAN BIOLOGY

#### ENVIRONMENTAL ISSUES

#### Multiple Choice Question

1. A normal component of environment which becomes pollutant when its concentration crosses a threshold value is called

A. quantitative pollutant

B. qualitative pollutant

C. degradable pollutant

D. physical pollutant

**Answer: A**



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2. Qualitative pollutants are

A. added by man

B. naturally occurring

C. present in the High concentration

D. none of these

**Answer: A**



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**3. The Environment Protection Act of Government of India was passed in**

A. 1976

B. 1986

C. 1966

D. 1996

**Answer: B**



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4. Ecological backlash (or ecological boomerang) is

- A. production of adverse ecological effect by a previously useful chemical
- B. production of useful ecological effect by a previously useful chemical
- C. heat emission due to bomb explosion

D. none of these

**Answer: A**



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5. When did the water (Prevention and control of pollution) Act come into operation India ?

A. 1969

B. 1972

C. 1970

D. 1974

**Answer: D**



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6. Some times secondary pollutants like Ozone, PAN (Peroxy acyl nitrate),  $HNO_3$ ,  $H_2SO_4$  formed from primary pollutants are moer toxic than primary pollutants. This phenomenon of increased toxicity in pollutants is callex

- A. Biomagnification
- B. Eutrophication
- C. Synergism

D. Green house effect

**Answer: C**



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7. Which one is not produced as exhaust of vehicle ?

A.  $SO_2$

B.  $CO_2$

C.  $CO$

D. flyash

**Answer: D**



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**8. Climate of the world is threatened by**

A. increasing amount of  $CO_2$

B. increasing amount of  $O_2$

C. increasing amount of  $O_3$

D. none of the above

**Answer: A**



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9. In almost all Indian metropolitan cities like Delhi major air pollutant is

A. SPM

B.  $SO_2$

C.  $NO_2$

D.  $CO$  &  $SO_2$

**Answer: D**



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10. Major aerosol pollutant present in jet plane emission is :

- A. sulphur dioxide
- B. carbon tetrachloride
- C. carbon monoxide
- D. fluorocarbon

**Answer: D**



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11. Decolouration of lead and silver paints is caused due to

- A. sulphur dioxide
- B. carbon monoxide
- C. hydrogen sulphide
- D. ozone

**Answer: C**



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

- A. same as present
- B. less than the present
- C. higher than the present
- D. dependent on  $O_2$  in atmosphere.

**Answer: B**



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13. CO is more toxic than  $CO_2$  because it :

A. it effects the revous system

B. it damages lungs

C. it reduce the oxygen carrying capacity of  
haemoglobin

D. it forms acid with water

**Answer: C**



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14. Chlorosis in plants is mainly caused by

- A. CO pollution
- B. Arsenic pollution
- C.  $SO_2$  pollution
- D. Soot particles

**Answer: C**



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15. Lead pollution in Indian cities had been mainly due to

A. electronic gadgets

B. automoblies

C. batteries

D. lead pencils

**Answer: B**



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**16.** Taj mahal is thretened by pollution from

A. chlorine

B. sulphur dioxide

C. oxygen

D. hydrogen

**Answer: B**



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**17. Lichen deserts indicate**

A. air pollution due to CO

B. air pollution due to  $SO_2$

C. pollution due to smoke

D. noise pollution



**Answer: B**



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**18.** Death while sleeping in closed room with burning coal furnace is due to

A.  $CO_2$

B.  $CO$

C.  $CCl_4$

D.  $SO_2$

**Answer: B**



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**19.** The major source of pollution upto 80 % of total air pollution in metroplitan cities is

- A. automobiles (Traffic) /Transportation
- B. coal based industries
- C. pesticides
- D. radioactivity and noise

**Answer: A**



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20. Major air pollutant is

A.  $CO_2$

B.  $N_2$

C.  $SO_2$

D.  $CO$

**Answer: D**



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21. Damage to Tajmahal is being caused by

A. dust

B. smoke

C. acid rain

D. global warming

**Answer: A**



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**22.** Removal of desirable substances/plants is called

A. negative pollution

B. positive pollution

C. biomagnification

D. conservation

**Answer: A**



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**23.** Safe limit of water fluoride level is

A.  $0.1 \times 0.4\text{mg/litre}$

B.  $0.5 \times 0.8\text{mg/litre}$

C.  $0.9 \times 1.2\text{mg/litre}$

D.  $1.3 \times 1.6\text{mg/litre}$

**Answer: B**



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**24.** The congress grass/carrot grass that causes allergy arrived in India in 1956. It is

- A. *Parthenium hysterophorus*
- B. *Eichhornia crassipes*
- C. *Opuntia dilleni*
- D. *Sorghum halepense*

**Answer: A**



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25. Which is the gas that produces the most damaging acid rains ?

A.  $SO_2$

B.  $O_3$

C.  $CO_2$

D.  $H_2$

**Answer: A**



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**26.** Smog is combination of

A. air and water vapour

B. water and smoke

C. smoke and fog

D. fire and water

**Answer: C**



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**27.** Smog the occurs mainly by automobile exhausts at high temperature over congested metropolitan



cities due to still air is called

- A. London smog
- B. Classical smog
- C. Both (1) and (2)
- D. Photochemical smog

**Answer: D**



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**28.** London smog of 1952 that killed about 4000 lives persons, was

A. photochemical and rich in  $NO_2$

B. coal induced and rich in  $SO_2$

C. effect of nuclear accident

D. due to atomic explosion

**Answer: B**



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**29.** Smog that occurs due to low temperature and has reducing environment is

A. London smog

B. Photochemical smog

C. Los Angeles smog

D. All the above

**Answer: A**



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**30.** Which is always present in photochemical smog

?

A. Ozone

B.  $CO_2$

C.  $SO_2$

D.  $CH_4$

**Answer: A**



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**31.** Which of the following damages chloroplasts and reduces photosynthetic efficiency ?

A. Peroxyacetyl nitrate

B. Carbon monoxide

C. Carbon dioxide

D. SPM

**Answer: A**



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**32.** Ultraviolet rays in sunlight cause a reaction that produces the pollutant

A. CO pollution

B.  $CH_4$

C.  $SO_2$

D.  $O_3$

**Answer: D**



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**33.** Smog is consequence of

A. rapid build of  $CO_2$  in atmosphere

B. depletion of ozone layer

C. presence of high pressure in atmosphere

D. rapid build up of photochemical oxidants,  
pollutants and thermal inversions

**Answer: D**



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34. The most serious pollutant to rubber tyres is

A.  $CO_2$

B.  $CO$

C.  $O_3$

D.  $NO_2$

**Answer: C**



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

- A. Ammonia
- B. sulphur dioxide
- C. Nitrous
- D. Ozone

**Answer: C**



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**36.** Ozone hole is due to mainly two green house gases which are

A.  $CO_2$ ,  $CH_4$

B.  $N_2O$  and  $CFCs$

C.  $N_2O$  and  $CO$

D.  $CFC$  and  $CO_2$

**Answer: B**



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37. Which part of human body is the first to be affected by nuclear radiations?

A. Bone marrow

B. Liver

C. Lungs

D. Brain

**Answer: A**



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**38.** The Chernobyl disaster in the then USSR (now Ukraine) was caused on 26.4.1986 by a

- A. pesticide factory accident
- B. nuclear reactor accident
- C. nuclear waste disposal
- D. nuclear weapon accident

**Answer: B**



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**39.** Green house gasses like  $CO_2$ ,  $CH_4$ ,  $CFC$ ,  $N_2O$  and house (bromine) are

A. reflector of long wave radiations like infrared emitted from earth surface

B. transparent to solar and radiations for warming of atmosphere

C. absorber of solar radiations for warming of atmosphere

D. transparent to emissions from earth for passage into space

**Answer: A**



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**40.** The major source of methane that causes global warming is

- A. wheat fields marshes
- B. Rice fields, cattles and marshes
- C. Sugarcane plantation and buffaloes
- D. Fruit orchards

**Answer: B**



41.  $CO_2$  is called a green house gas because

- A. it is transparent to sunlight but opaque to heat
- B. transparent to light & heat radiation & both
- C. transparent to light & heat radiation both to sunlight
- D. used in green houses to increase plant growth

**Answer: A**



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**42. Contribution of methane to global warming is:**

A. 6 %

B. 14 %

C. 20 %

D. 30 %

**Answer: C**



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43. The present average temperature of earth is

A.  $10^{\circ} C$

B.  $12^{\circ} C$

C.  $14^{\circ} C$

D.  $15^{\circ} C$

**Answer: D**



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44. Ozone hole is maximum over



A. India

B. Antarctica

C. Europe

D. Africa

**Answer: B**



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**45.** It is used in refrigerator and air conditioners and it is a source of  $Cl^-$  :

A. Benzopyrene

B. Freon

C. Benzene

D.  $CH_4$

**Answer: B**



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**46.** Range of human hearing is

A.  $20 - 400Hz$

B.  $100 - 1000Hz$

C.  $20 - 20000Hz$

D.  $1000 - 15000 Hz$

**Answer: C**



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**47.** Tubifex in water indicates its

A. thermal pollution

B. organic loading

C. toxic Metals

D. high salt contents

**Answer: A**



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**48.** Highly polluted waters have

A. high Algal waters have

B. low Algal Genus index

C. no algae at all

D. a few algal genera and a few bacteria

**Answer: B**



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49. BOD is

A. amount of  $O_2$  required and a few bacteria  
water

B. amount of  $O_2$  required by microbes for  
decomposition of organic matter

C. amount of  $O_2$  present in water at  $37^\circ C$

D. all of the above

**Answer: B**



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50. The first rate pollution monitor are

A. molluscs

B. butterflies

C. honey bee

D. plants

**Answer: A**



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## 51. Match the following

- |                   |     |                          |
|-------------------|-----|--------------------------|
| 1. Acid rain      | (A) | Biological amplification |
| 2. DDT            | (B) | Minral pollution         |
| 3. BOD            | (C) | Smog                     |
| 4. Eutrophication | (D) | Sewage pollution         |
| 5. PAN            | (E) | $SO_2$                   |

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

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

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

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

**Answer: B**



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**52.** Events that take place in eutrophication on given below

(a) excessive growth of algae

(b) depletion of dissolved oxygen

(c) bacteria feed on dead algae cells

(d) aquatic body becomes rich in phosphates

The correct order of events cells that occurs here is

A. (a), (d) , (c ), (b)

B. (d), (a), (c ), (b)

C. (a), (b), (d), (c )

D. (d), (c ), (b), (a)



**Answer: B**



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**53.** Water is often treated with chlorine to

- A. kill germs
- B. remove hardness of water
- C. to remove suspended particles
- D. to increase oxygenation

**Answer: A**



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54. Warm ocean surge or Peru current that recurs after 5-8 years in East pacific along south America is

A. El Nino

B. Aye Aye

C. Gulf stream

D. Magnox

**Answer: A**



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55. Among pollutants which has the most lasting effect

A. CO pollution

B. Pesticides

C. Smoke

D.  $SO_2$

**Answer: B**



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56. Water blooms are mainly formed by

A. Protozoa

B. Planktonic blue green Algae

C. Slime moulds

D. Lemna and Hydrilla

**Answer: B**



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**57.** Phosphate pollution is caused by

A. phosphate rocks

B. agricultur fertilizers

C. sewage and automobiles

D. sewage and agricultural fertilizers

**Answer: D**



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**58.** High amount of esherichita coli in water is an indicator of

A. hardness of water

B. industrial pollution

C. sewage pollution

D. presence of chlorine in water

**Answer: C**



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**59.** The values of dissolved oxygen (DO) content in heavily polluted water is less than

A.  $6.0\text{mgL}^{-1}$

B.  $9.0\text{mgL}^{-1}$

C.  $4.0\text{mgL}^{-1}$

D.  $8.0\text{mgL}^{-1}$

**Answer: C**



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**60.** The natural ageing of the fresh water lake is called

- A. biomagnification
- B. eutrophication
- C. BOD
- D. green house effect

**Answer: B**



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61. Algal blooms in water bodies cause

A. enrichment of  $O_2$  during nights

B. depletion of  $O_2$  during nights

C. increase in fish production

D. increase in zooplankton

**Answer: B**



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62. The world's most problematic aquatic weed is also called

- A. Terror of Delhi'
- B. Terror of Mumbai'
- C. Terror of Bangalore'
- D. Terror of Bangal'

**Answer: D**



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**63.** A most harm ful environment pollutant/soil pollutant

- A. human waste
- B. fossil fuel and iron junks
- C. polythene sheet
- D. excessive nutrients in soil

**Answer: C**



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**64.** Jhuming mainly occurs in India in

A. hilly area

B. Madhya Pradesh

C. North east

D. Malabar areas

**Answer: C**



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**65.** DDT and other chlorinated hydrocarbons are toxic because these are

A. quantitative pollutants and kill insects

B. biodegradable pollutants and pollute the atmosphere

C. non biodegradable pollutants and are accumulated in the organisms through food chain

D. secondary pollutant and their concentration increases at every trophic level in food chain

**Answer: C**



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66. Which industry workers suffer from Byssinosis ?

A. Cardboard

B. Coal miners

C. Textile

D. Paper

**Answer: C**



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67. Cotton dust produced in industry during ginning process causes

A. siderosis

B. asbestosis

C. pneumoconiosis

D. asthma

**Answer: C**



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**68.** Which disease in children is caused by intensive use of nitrate fertilizer

A. Septal defects in heart

B. Methaemoglobinaemia

C. Mumps

D. (1) and (2) both

**Answer: B**



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**69.** Deficiency of fluorine in drinking water caused

A. dental caries

B. dental flourosis

C. skeletal fluorosis

D. goiter

**Answer: A**



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**70. Which usually causes fibrosis in lungs ?**

A. Lead

B. Asbestoos

C. CFC

D. DDT



**Answer: B**



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**71. Knocks knee disease is**

- A. caused by homonal imbalance and excess of  
HG
- B. due to deficiency of tyrosine
- C. due to excess fluoride concentration in water
- D. due to high BOD and high temperature of  
water by thermal pollution

**Answer: C**



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**72.** A person has impaired nervous system and signs of madness due to continued intake of metal contaminated water. The metal is

A. Fe

B. Ca

C. Pb

D. Flouride

**Answer: C**



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

A. Cats

B. Rabbits

C. Dogs

D. Humans

**Answer: B**



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74. Black lung disease is common in:

A. farmers

B. workers of textile industries

C. coal miners

D. refinery workers

**Answer: C**



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75. Match the following

Column I	Column II
a. Arsenic	1. Minimata
b. Nitrate	2. Itai-itai
c. Mercury	3. Blue baby syndrome
d. Cadmium	4. Skeletal fluorosis
e. Fluoride	5. Black foot disease

A.  $a - 5, b - 3, c - 1, d - 2, e - 4$

B.  $a - 2, b - 3, c - 5, d - 1, e - 4$

C.  $a - 3, b - 4, c - 5, d - 1, e - 2$

D.  $a - 5, b - 4, c - 3, d - 2, e - 1$

**Answer: A**



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76. Fluoride pollution produces necrosis or chlorosis of mainly

A. leaf margin or tips

B. roots

C. petiole

D. mid rib

**Answer: A**



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77. In the treatment of waste water before discharge which treatment stage involve biological treatment ?

- A. Primary stage
- B. Secondary treatment stage
- C. Reverse osmosis
- D. Tertiary treatment stage

**Answer: B**



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**78.** The best method to dispose night soil is

- A. incineration
- B. composting
- C. sewage system
- D. primary treatment

**Answer: C**



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**79.** Activated sludge process is concerned with waste management. It is a



A. chemical treatment

B. biological treatment

C. mechanical means

D. nuclear means

**Answer: B**



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**80.** Superburg claimed to clean up oil slicks in ocean

is

A. Eschrichia coli

B. Bacillus thuringensis

C. Pastuerella pestis

D. Pseudomonas putida

**Answer: D**



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**81. NEERI is**

A. National Environmental Engineering Research

Institute, Nagpur

B. National Ecological and Environmental

Research Institute, Pune

C. National Agencies and Ecological Research

Institute, Mumbai

D. National Ethological and Ecological Research

Institute, New Delhi

**Answer: A**



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**82. Green muffer is meant for**

- A. reducing smog
- B. sound insulation
- C. preventing haze formation
- D. reducing ground frost

**Answer: B**



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**83.** Plantations of rows of trees and shrubs along roads, rails, around residential complexes, educational institutes, etc. is called

A. shelter belt

B. green muffler

C. wind break

D. both (1) and (3)

**Answer: B**



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**84.** Due to attack to  $SO_2$  and  $H_2SO_4$ , the marble ( $CaCO_3$ ) of Taj Mahal and Red stone of Red Fort changed into calcium sulphate which is bulky and causes

A. stone leprosy

B. stone mosaic

C. corrosion

D. none of these

**Answer: A**



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**85.** Which of the following is pollutant as well as protectant?

A.  $CO_2$

B. Ozone

C. CFC

D. PAN

**Answer: B**



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**86.** Disappearance of fish from water bodies usually indicates excess of . . . . . in water

A. Zn

B. Hg

C. Fluoride

D. Fe

**Answer: B**



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**87.** Use of lichens and Nerium in case of pollution is

A. tratment of polluted water

B. promate Pollution due to  $SO_2$

C. bioindicators of  $SO_2$  Pollution

D. green muffler



**Answer: C**



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**88.** Photochemical smog related to air pollution ,  
primarily contains

- A. oxides of sulphur & carbon monoxide
- B. oxides of nitrogen and hydrocarbons
- C. oxides of sulphur and CFCs
- D. oxides and carbon and sulphur

**Answer: B**



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**89.** Ozone day, world Environment Day and National Pollution Prevention Day are celebrated respectively

A. June. 5, Sept. 6, Oct. 21

B. June. 5, Sept. 6, Dec. 2

C. Sept. 16, June. 5, Dec. 28

D. Sept. 16, June. 5, Dec. 2

**Answer: D**



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90. Chlorofluorocarbons are major depletor of ozone layer in stratosphere . They split to release chlorine. One atom of chlorine converts how many molecules of ozone into oxygen ?

A. 1 lakh

B. 2

C. 40

D. 1 million

**Answer: A**



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**91.** e-wastes refer to

- A. radioactivity waste
- B. nuclear waste
- C. can be both (1) and (2)
- D. electronic waste

**Answer: D**



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92. Sanitary landfill were adopted as the substitute for

- A. sewage
- B. biomagnification
- C. eutrophication
- D. open-burning dumps

**Answer: D**



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93. Match the items in Column A with those of Column B.

Column A	Column B
1. Water act	A. Biomagnification
2. Air act	B. Electronic waste
3. DDT	C. Greenhouse gas
4. e-waste	D. 1981
5. Carbon dioxide	E. 1974

A. 1-D, 2-A, 3-E, 4-B, 5-C

B. 1-D, 2-E, 3-A, 4-B, 5-C

C. 1-E, 2-D, 3-B, 4-A, 5-C

D. 1-E, 2-D, 3-A, 4-B, 5-C

**Answer: D**



94. Under Column-I, a list of gases that are known to have a greenhouse effect is given .

Relate them to their main source selecting from the list given under column-II.

Column I	Column II
A. Nitrous oxide	1. Secondary pollutant from car exhausts
B. Chlorofluorocarbons (CFCs)	2. Combustion of fossil fuels, wood, etc.
C. Methane	3. Denitrification
D. Ozone ( $O_3$ )	4. Refrigerators, aerosol, sprays
E. Carbon dioxide	5. Cattle, rice fields, toilets

A. A-3, B-4, C-5, D-1, E-2

B. A-5, B-1, C-3, D-4, E-2

C. A-4, B-5, C-1, D-2, E-3

D. A-1, B-3, C-4, D-5, E-2

**Answer: A**



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**95.** Which of the following will not control particular pollutants

A. Incinerator



B. Arrester

C. Scrubber

D. Filter

**Answer: A**



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**96.** Match the items in Column A with those of Column B.

Column A	Column B
i. Catalytic converter	a. Particulate matter
ii. Electrostatic precipitator	b. CO and Nitrogen oxide
iii. Earmuffs	c. High noise level
iv. Landfills	d. Solid wastes

A. i-b, ii-c, iii-a, iv-d

B. i-a, ii-c, iii-b, iv-d

C. i-a, ii-b, iii-c, iv-d

D. i-b, ii-a, iii-c, iv-d

**Answer: D**



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97. The Central Pollution Control Board has recommended zone-wise permissible ambient noise level for residential area during day and night time is

A. 75 dn & 70 db

B. 65 db & 55 db

C. 55 db & 45 db

D. 50 db & 40 db

**Answer: C**



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**98.** Which metal inactivates a catalytic converter ?

A. Gold

B. Iron

C. Silver

D. Lead

**Answer: D**



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**99.** Which of the following is an example of Bioremediation ?

- A.  $N_2$  fixation in bacteria.
- B. Pesticides killing of microbes
- C. Ground water formation by bacteria.
- D. Microorganism using pesticides for energy

**Answer: D**

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**100.** Development that meets the need of the present without compromising the ability of future generation to meet their own need is called

- A. sustainable development
- B. social development
- C. economic development
- D. environment development

**Answer: A**



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**101.** Cyclone collector is used to minimise

- A. redioactive pollution
- B. water pollution

C. noise pollution

D. air pollution

**Answer: D**



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**102.** Reverse osmosis is done in treatment  
..... stage of waste water.

A. primary

B. secondary

C. tertiary

D.  $NO_2$

**Answer: C**



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**103.** Earth Summit at Rio de Janeiro was related to:

- A. conservation of environment
- B. survey of natural resources
- C. soil fertility
- D. prevention of afforestation



**Answer: A**



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**104.** Ramsar Convention is related to

- A. conservation of wetlands
- B. sustainable development
- C. nuclear waste management
- D. global warming

**Answer: A**



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**105.** A forest is a

- A. biotic community
- B. population
- C. a protected area
- D. succession stage

**Answer: A**



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**106.** For the best ecological balance, land mass of a country in plains covered with forests must be

A. 22 %

B. 33 %

C. 30 %

D. 35 %

**Answer: B**



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**107.** Forests in India according to Central Forestry Commission (1980) are about

A. 19.4 %

B. 17.3 %

C. 31 %

D. 13.0 %

**Answer: C**



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**108.** What percentage of total area in hilly regions does the National Forests Policy suggests to be under forests

A. 30 %

B. 67 %

C. 33 %

D. 66 %

**Answer: B**



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109. Planting trees on public and common land is known as

- A. social forestry
- B. farm forestry
- C. agroforestry
- D. none of the above

**Answer: A**



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110. Afforestation with purpose of environmental, aesthetic and economic development is known as

- A. integrated afforestation
- B. social forestry
- C. agroforestry
- D. production plantation

**Answer: A**



**Watch Video Solution**

111. Planting of flower and fruit trees along road sides is included in

- A. agroforestry programme
- B. jhuming programme
- C. urban forestry programme
- D. van Mahotsava

**Answer: C**



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112. Our forests are on the decline because of



A. soil erosion

B. heavy floods

C. no afforestation

D. indiscriminate felling of trees and grazing

**Answer: D**



**Watch Video Solution**

**113.** Forests near equator region are called-

A. deciduous forests

B. tropical forests

C. coniferous forests

D. grasslands

**Answer: B**



**Watch Video Solution**

**114.** Which one is not correct for the effects of deforestation ?

A. It leads to soil erosion

B. It alters the weather pattern by decreasing rainfall

C. It speeds up nutrient recycling

D. It destroys natural habitats of wild life

**Answer: C**



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**115.** Chipko movement is the world's most known eco development programme, started S.L. Bahuguna is 1973 in Tehri Garhwal (Uttanchal). It is related with

A. plant/forests conservation

B. afforestation

C. conservation of water resources

D. population control

**Answer: A**



**Watch Video Solution**

**116.** Which type of forest is the most fertile reservoir of wild life ?

A. Temperate forests

B. Tropical rain forests

C. Deciduous forests

D. all of the above

**Answer: B**



**Watch Video Solution**

**117.** Jhoom cultivation refers to

A. cultivation of Juman trees

B. cultivation of medical plants by tribes

C. tribal methods of shifting cultivation

D. cultivation of terraces

**Answer: C**



**Watch Video Solution**

**118.** The main causative factor of desertification is

A. overgrazing

B. human Developmental activities

C. irrigated agriculture

D. tourism

**Answer: B**



**Watch Video Solution**

**119.** Social forestry programme is

A. to make up for the loss of tree cover

B. designed to prevent desertification

C. meant to restore soil fertility

D. to provide tree cover to meet daily needs of  
society

**Answer: D**



**Watch Video Solution**

**120.** Soil erosion is prevented by

A. afforestation

B. overgrazing

C. removal of weeds

D. increasing birds population

**Answer: A**



**Watch Video Solution**

**121.** Nitrogen oxides produced from the emission of automobiles and power plants are the source of



fine air borne particles which lead to

- A. Soilerosion
- B. Dry acid deposition
- C. Industrial smog
- D. Wet acid deposition

**Answer: B**



**Watch Video Solution**

**122.** A lake with an inflow of domestic sewage rich in organic waste may result in

- A. drying of the lake very soon due to algal bloom
- B. an increased production of fish due to lot of nutrients
- C. death of fish due to lack of oxygen
- D. increased population of aquatic food web organisms

**Answer: C**



**Watch Video Solution**

**123.** Pollution from animal excreta and organic waste from kitchen can be most profitably minimized by

- A. storing them in underground storage tanks
- B. using them for producing biogas
- C. vermiculture
- D. using them directly as biofertilizers

**Answer: B**



**Watch Video Solution**

**124.** What is true about the Euro Iv norms

- A. It stipulates to control sulphur at 350 ppm in diesel and 150 ppm in petrol
- B. it stipulates to reduce sulphur levels to 50 ppm in petrol and diesel
- C. it stipulates to reduce sulphur level to 200 ppm in diesel and petrol
- D. it stipulates to reduce sulphur levels to 200 ppm in diesel and 100 ppm in petrol.

**Answer: B**

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125. Which one of the following pairs is mismatched ?

A. Nuclear power - radioactive wastes

B. Solar energy - greenhouse effect

C. Fossil fuel burning - release of  $CO_2$

D. Biomass burning- release of  $CO_2$

**Answer: B**

 [Watch Video Solution](#)

**126.** 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 – 2.5

B. 2.5 or less

C. 1.5 or less

D. 1.0 or less

**Answer: B**



**Watch Video Solution**

127. Choose the correct statement regarding the catalytic converters.

A. Motor vehicles equipped with catalytic converter should use leaded petrol

B. Catalytic converters have expensive metals namely platinum-palladium and rhodium as catalyst

C. Catalytic converters help in reducing particulate matter

D. As the exhaust passes through the catalytic converter nitrogen gas is converted to nitric

oxide

**Answer: B**



**Watch Video Solution**

**128.** Find the correct statement.

- A. The clean water organisms return in a river in which sewage has been discharged when the BOD is low.
- B. Having an algal bloom in a lake indicates good quality of water.



C. According to CPCB, particulate size 25 micrometers or less in air cause the greatest harm to human health.

D. In DDT bio magnification the maximum ill effect is on the zooplanktons

**Answer: A**



**Watch Video Solution**

**129.** Find the correct match.

- A. Dust particles get charged and are thus removed - Catalytic converters
- B. CO and Nitric oxide are changed to  $CO_2$  and  $N_2$  gas - Electrostatic precipitators
- C. Dry composting of human excreta - Sanitary landfills
- D. Exhaust is passed through lime to remove sulphur dioxide - Scrubber

**Answer: D**



**Watch Video Solution**

**130.** Bald Eagle had been at high risk of extinction due to its

- A. Large size
- B. Low reproductive potential
- C. High trophic level
- D. Change in migratory route

**Answer: C**



**Watch Video Solution**

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

- A. Phytoplankton
- B. Sea Guil/Birds
- C. Crab
- D. Eel

**Answer: B**



**Watch Video Solution**

**132.** In the absence of greenhouse gases, the temperature of earth's surface will fall to

A.  $0^{\circ} C$

B.  $-5^{\circ} C$

C.  $-7^{\circ} C$

D.  $-20^{\circ} C$

**Answer: D**



**Watch Video Solution**

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

A. DDT

B. Ammonia

C.  $CO_2$

D. Water

**Answer: D**



**Watch Video Solution**

**134.** Which among the component is present in stratosphere?

A. Oxygen

B. Ozone

C. Carbon

D. Fluorine

**Answer: B**



**Watch Video Solution**

**135.** A lake was found to harbour alarming level of a pesticide -DDT. The people most affected by accumulation of DDT in the body would be those that

- A. consumed products of plants growing in the lake
- B. ate fish from the lake
- C. ate birds dwelling in the same are
- D. used same water for bathing

**Answer: C**



**Watch Video Solution**



**136.** DDT has been banned from many developed countries because of its

A. high toxicity to mammals

B. high degree of persistence in the environment

C. low toxicity to insects

D. high solubility in water

**Answer: B**



**Watch Video Solution**

**137.** Which one of the following is a group of major green house gases ?

A. Carbon monoxide, methane, chlorofluoro carbons and oxides of nitrogen

B. Carbon dioxide, oxides of nitrogen , ethane and chlorofluoro carbons

C. Carbon dioxide, methane chlorofluoro carbons and oxides of nitrogen

D. Ethane, oxides of nitrogen , carbon monoxide and chlorofluoro carbons

**Answer: C**



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**138.** Identify the correctly matched pair:

- A. Kyoto Protocol - Climatic change
- B. Montreal Protocol - Global warming
- C. Basal Convention - Biodiversity Conservation
- D. Ramser Convention - Ground water pollution

**Answer: A**



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**139.** The material generally used for sound proofing of rooms like a recording studio and auditorium , etc is :

A. cotton

B. coir

C. wood

D. styro foam

**Answer: D**



**Watch Video Solution**

140. Which of the following causes bio magnification

A.  $SO_2$

B. Mercury

C. DDT

D. Both (2) & (3)

**Answer: D**



**Watch Video Solution**

141. The expanded form of DDT is

- A. dichloro diphenyl trichloroethane
- B. dichloro diethyl trichloroethane
- C. dichloro dipyrydyl trichloroethane
- D. dichloro diphenyl tetrachloroacetate

**Answer: A**

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**142.** Choose the incorrect statement.

- A. The Montreal protocol is associated with the control of emission of ozone depleting

substances

B. Methane and carbon dioxide are green house gases

C. Dobson units are used to measure oxygen content

D. Use of incinerators is crucial to disposal of hospital wastes

**Answer: C**



**Watch Video Solution**

**143.** The loudness of a sound that a person can withstand without discomfort is about :

A.  $15\text{dB}$

B.  $215\text{dB}$

C.  $30\text{ dB}$

D.  $80\text{ dB}$

**Answer: D**



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**144.** Match correctly the following and choose the correct option.

Environment Protection Act	A, 1974
Air prevention and control of Pollution Act	B. 1987
Water Act	C. 1986
Amendment of Air Act to include noise	D. 1981

The correct match is

A. (i)-C, (ii)-D, (iii)-A, (iv)-B

B. (i)-A, (ii)-C, (iii)-B, (iv)-D

C. (i)-D, (ii)-A, (iii)-B, (iv)-C

D. (i)-C, (ii)-D, (iii)-B, (iv)-A

**Answer: A**



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**145.** Which one of the following impurities is easiest to remove from waste water?

- A. Bacteria
- B. Colloids
- C. Dissolved solids
- D. Suspended solids

**Answer: D**



**Watch Video Solution**

**146.** Nuisance growth of aquatic plants and bloom forming algae in natural waters is generally due to high concentrations of:

A. carbon

B. sulphur

C. calcium

D. phosphorus

**Answer: D**



**Watch Video Solution**

147. Match the items in column I and column II and choose the correct option

Column I	Column II
A. UV	i. Biomagnification
B. Biodegradable Organic matter	ii. Eutrophication
C. DDT	iii. Snow blindness
D. Phosphates	iv. BOD

A. A ii, B I, C iv, D ii

B. A iii, B ii, C iv, D i

C. A iii, B iv, C i, D ii

D. A iii, B i, C iv, D ii

**Answer: C**



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**148.** Anthracosis is caused by

- A. coal dust
- B. iron dust
- C. cane fibres
- D. silica

**Answer: A**



[Watch Video Solution](#)

149. Checking of radiating heat by atmospheric dust, water vapour, ozone,  $CO_2$  etc., is known as:

- A. green house effect
- B. solar effect
- C. ozone layer effect
- D. radioactive effect

**Answer: A**



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

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

**Answer: D**



**Watch Video Solution**

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

- A. Permission to use only pure diesel with a maximum of 500 ppm sulphur as fuel for vehicles.
- B. Use of non-polluting Compressed Natural Gas (CNG) only as fuel for all buses and trucks
- C. Compulsory mixing of 20 % ethyl alcohol with petrol and 20 % biodiesel with diesel.
- D. Compulsory PUC (Pollution Under Control) certification of period driven vehicles which



## tests of carbon monoxide and hydrocarbons

**Answer: D**



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**152.** Biochemical oxygen demand (BOD) in a river water

- A. Gives a measure of Salmonella in the water
- B. increase when sewage gets mixed with river water
- C. Remains unchanged when algal bloom occurs

D. Has no relationship with concentration of oxygen in the water

**Answer: B**



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**153.** When domestic sewage mixes with river water

A. Small animals like rats will die after drinking river water

B. The increased microbial activity releases micro-nutrients 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**



**Watch Video Solution**

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

A.  $CO_2$  and  $N_2O$

B.  $CO_2$  &  $CH_4$

C.  $CH_4$  &  $N_2O$

D.  $CFC_5$  &  $N_2O$

**Answer: B**



**Watch Video Solution**

**155.** 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**



**Watch Video Solution**

**156.** Which of the following practices has caused maximum damage to the diversity of Indian forests

?

A. Selecting harvesting

B. Block cuttin

C. Taungya cultivation

D. Jhoom cultivation

**Answer: D**



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**157.** BOD level in fresh water should not exceed beyond:

A. 5 ppm

B. 10 ppm

C. 25 ppm

D. 50 ppm

**Answer: D**



**Watch Video Solution**

**158.** In human body, the chlorinated hydrocarbons keep on accumulating in:

A. bones

B. brain

C. skin

D. fatty tissue

**Answer: D**



**Watch Video Solution**

**159.** Biomagnification of DDT caused decline in bird population by:

- A. bringing disturbance in calcium metabolism
- B. thinning of egg shell
- C. premature breaking of eggs
- D. all the above

**Answer: D**





**160.** Ecological sanitation is a sustainable system for handling human excreta, using dry composting toilets. Such 'EcoSan' toilets are working in many areas of:

- A. Assam and West Banel
- B. Maharashtra and Andhra Pradesh
- C. Kerala and Sri Lanka
- D. Karanataka and Andhra Pradesh

**Answer: C**



Watch Video Solution

**161.** An international treaty, recognising the deleterious effects of ozone depletion is known as

- A. Kyoto Protocol
- B. Earth Summit
- C. Rio Conference
- D. Montreal Protocol

**Answer: D**



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

A.  $CO_2$  and  $O_3$

B.  $CO_2$  and  $CO$

C.  $CFCs$  and  $SO_2$

D.  $CO_2$  and  $N_2O$

**Answer: D**



**Watch Video Solution**

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

A. Methyl Isocyanate gas leakage took place

B. Thousands of human beings died

C. Radioactive fall and engulfed Bhopal

D. It took place in the night of December  
2/3, 1984.

**Answer: C**



**Watch Video Solution**

**164.** "Good ozone" is found in the

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

**Answer: C**



**Watch Video Solution**

**165.** In which year was the Air (Prevention and control of pollution ) Act amended to include noise

as air pollution.

A. 1972

B. 1981

C. 1987

D. 1990

**Answer: C**



**Watch Video Solution**

**166.** In an area where DDT had been used extensively the population of birds declined significantly

because

- A. earthworms in the area got eradicated
- B. cobras were feeding exclusively on birds
- C. many of the birds eggs laid, did not hatch
- D. birds stopped laying eggs

**Answer: C**



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**167.** Match the items of column I with column II and select the correct option.

**Column I****Column II**

<b>A</b>	<b>Electrostatic precipitator</b>	<b>1.</b>	<b>Removes gases like SO<sub>2</sub></b>
<b>B</b>	<b>Scrubber</b>	<b>2.</b>	<b>Reduces automobile emission</b>
<b>C</b>	<b>Catalytic converter</b>	<b>3.</b>	<b>Removes particulate matter</b>

A. A-2, B-3, C-1

B. A-3, B-2, C-1

C. A-1, B-2, C-3

D. A-3, B-1, C-2

**Answer: D**



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**168. Measuring Biochemical Oxygen Demand (BOD)**

is a method used for

- A. Working out the efficiency of oil driven automobile engines
- B. Measuring the activity of *Saccharomyces cerevisiae* in producing curd on a commercial scale
- C. Working out the efficiency of R.B.Cs about their capacity to carry oxygen
- D. Estimating the amount the organic matter in sewage water

**Answer: D**



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**169.** Which one of the following is a wrong statement?

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

B. Greenhouse effect is a natural phenomenon

C. Eutrophication is a natural phenomenon in freshwater bodies

D. Most of the forests have been lost in tropical areas

**Answer: A**



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**170.** Domestic sewage of large cities

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

B. Has very high amounts of suspended solids and dissolved salts.

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

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

**Answer: D**



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**171.** High amount of Escherichia coli in water is an indicator of

A. Hardness of water

B. Industrial pollution

C. Sewage pollution

D. Pollution due to electromagnetic radiations

**Answer: C**



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**172.** Kyoto Protocol was endorsed at:

A. CoP -6

B. CoP-4

C. CoP-3

D. CoP-5

**Answer: C**



**Watch Video Solution**

**173.** Global warming can be controlled by:

A. Increasing deforestation , slowing down the  
growth of human population

B. Increasing deforestation , reducing efficiency of energy usage.

C. Reducing deforestation , cutting down use of fossil fuel .

D. Reducing reforestation, increasing the use of fossil fuel

**Answer: C**



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

A. 1985

B. 1990

C. 1975

D. 1981

**Answer: D**



**Watch Video Solution**



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

A. Troposphere

B. Ionosphere

C. Mesosphere

D. Stratosphere

**Answer: D**



**Watch Video Solution**

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

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

**Answer: B**



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

A. water is highly polluted

B. water is less polluted

C. consumption of organic matter in the water is higher by the microbas

D. water is pure

**Answer: A**



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

A. South Africa

B. Peru

C. Qatar

D. Poland

**Answer: A**



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**179.** Rachel Carson's famous book " Silent Spring " is related to

- A. noise pollution
- B. population explosion
- C. ecosystem management
- D. pesticide pollution

**Answer: D**



**Watch Video Solution**

**180.** Which of the following is not one of the prime health risk associated with greater UV radiation through the atmosphere due to depletion of stratospheric ozone ?

- A. Reduced Immune System
- B. Damage to eyes
- C. Increased liver cancer
- D. Increased skin cancer

**Answer: C**



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**181.** The UN conference of Parties on climate change in the year 2012 was held in

A. Durban

B. Doha

C. Lima

D. Warsaw

**Answer: B**



**Watch Video Solution**

**182.** Increase in concentration of the toxicant at successive trophic levels is known as

- A. Biomagnification
- B. Biodeterioration
- C. Biotransformation
- D. Biogeochemical cycling

**Answer: A**



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

A.  $SO_2$  and  $NO_2$

B.  $SO_3$  and  $CO$

C.  $CO_2$  and  $CO$

D.  $O_3$  and dust

**Answer: A**



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

A. food

B. light

C. essential minerals

D. oxygen

**Answer: D**



**Watch Video Solution**

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

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

**Answer: C**





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**186.** A system of rotating crops with legume or grass pasture to improve soil structure and fertility is called

- A. Contour farming
- B. Strip farming
- C. Shifting agriculture
- D. Ley farming

**Answer: D**



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**187.** Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancers

A. Ozone

B. Ammonia

C. Methane

D. Nitrous Oxide

**Answer: A**



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**188.** 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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**189.** 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**



**Watch Video Solution**

**190.** The highest DDT concentration in aquatic food chain shall occur in

A. Phytoplankton

B. Seagull

C. Crab

D. eel

**Answer: B**



**Watch Video Solution**



**191.** Which one of the following statement 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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**192.** Match the items given in Column-I with those in Column II and select the correct option given below

:

Column I

(a) Eutrophication

(B) Sanitary landfill

(c) Snow blindness

(d) Jhum cultivation

Column II

(i) UV-B radiation

(ii) Deforestation

(iii) Nutrient enrichment

(iv) Waste disposal

A. *a b c d*  
*i ii iv iii*

B. *a b c d*  
*iii iv i ii*

C. *a b c d*  
*i iii iv ii*

D. *a b c d*  
*ii i iii iv*

**Answer: B**



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193. Which of the following is a secondary pollutant

A.  $O_3$

B.  $SO_2$

C.  $CO_2$

D.  $CO$

**Answer: A**



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**194.** In stratosphere , which of the following element acts as a catalyst in degradation of ozone an release of molecular oxygen ?

A. Oxygen

B. Fe

C. Cl

D. Carbon

**Answer: C**



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**195.** Ozone Day is celebrated on

- A. 22nd April
- B. 16th September
- C. 21st April
- D. 5th June

**Answer: B**



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**Check Your Concept Organisms And Population**

1. Opuntia is a mesophytic plant.



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2. Female mosquito is not considered as a parasite.



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3. The number of births during a period in the population that are added to the initial density is called natality.



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4. Organisms can live in pressure greater than 100 times the normal pressure.

A. true

B. false

C.

D.

**Answer: T**



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5. All organisms can not tolerate a wide range of salinities.



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6. A stage of suspended development is called Diapause.

A. true

B. false

C.

D.



**Answer: T**



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7. For human populations, the age pyramids generally show age distribution of males and females both.

A. true

B. falsa

C.

D.

**Answer: T**



**Watch Video Solution**

8. Temporary moving from the the stressful habitat to a more hospitable area a nd return when stressful period is over is known as migration.

A. true

B. false

C.

D.

**Answer: T**



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9. Size of population tells us a lot about its status in the habitat.

A. true

B. false

C.

D.

**Answer: T**



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10. Both species lose in competition.

A. true

B. false

C.

D.

**Answer: T**



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## Check Your Concept Ecosystem

1. Earth is an open system regarding matter.

A. true

B. false

C.

D.

**Answer: F**



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2. Mineral cycles are not balanced.

A. true

B. false

C.

D.

**Answer: T**



**Watch Video Solution**

3. Maximum biomass occurs in temperate forests.

A. true

B. false

C.

D.

**Answer: F**



**Watch Video Solution**

**4. Savannas are tropical rain forests.**

A. true

B. false

C.

D.

**Answer: F**



**Watch Video Solution**

5. Lions and wolves occupy the same trophic level

A. true

B. false

C.

D.



**Answer: T**



**Watch Video Solution**

6. Pyramid of numbers in pond ecosystem is inverted.



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7. Humans serves as a reservoir of nutrients.

A. true

B. false

C.

D.

**Answer: T**



**Watch Video Solution**

**8.** Which among the following is the producer in pond ecosystem?

A. Zooplanktons

B. Phytoplanktons

C. Snails

D. Insect larvae

**Answer: T**



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**9. Secondary productivity is the rate of formation of new organic matter by consumers.**

A. true

B. false

C.

D.

**Answer: T**



**Watch Video Solution**

**10. Which among the following is a producer?**

A. Zooplankton

B. Phytoplankton

C. Snail

D. Snake

**Answer: T**



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## Check Your Concept Biodiversity

1. National parks are reserved for the conservation of animals only.

A. true

B. false

C.

D.

**Answer: F**



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2. Fourteen Biosphere reserve have been planned in india.

A. true

B. false

C.

D.

**Answer: T**



**Watch Video Solution**

3. Deforestation makes floods and droughts more frequent.

A. true

B. false

C.

D.

**Answer: T**



**Watch Video Solution**

4. The term biodiversity was purposed by W.G. Rosen in 1985.

A. true

B. false

C.

D.

**Answer: T**



**Watch Video Solution**



5. The group fungi has more species than all the vertebrate species combined.

A. true

B. false

C.

D.

**Answer: T**



**Watch Video Solution**

6. Deforestation does not lead to alternation of local weather conditions.

A. true

B. false

C.

D.

**Answer: F**



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7. Sacred groves are found in

A. meghalaya

B. punjab

C. jammu and kashmir

D. bihar

**Answer: T**



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8. The historic convention on Biological Diversity held in Rio de Janeiro in 1992 is known as :



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9. World Summit on Sustainable Development was held in 2002 at

- A. Johannesburg
- B. United States
- C. New Delhi
- D. Karachi

**Answer: T**



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**10.** More than 1.5 million species have been recorded in the world .



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**11.** Sacred forests are traditional protected area.



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**12.** Biodiversity increases from equator to poles.



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13. Which of the following occupies lower strata in the trophic level.

A. Primary consumer

B. Producer

C. Primary consumer

D. Tertiary consumer

**Answer: T**



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14. National parks are reserved for the conservation of animals only.



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## Check Your Concept Environmental Issues Pollution

1. State whether the following statement is true or false.

The natural ageing of a lake is called biomagnification.



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2. State whether the following statement is true or false.

Free-floating algae are called algal blooms.



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3. The Environment Protection Act of Government of India was passed in



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4. State whether the following statement is true or false.

. The particulate matter can be removed by catalytic convertor.



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5. State whether the following statement is true or false.

The undersirable change in the abiotic compound of the body is called pollutants.



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6. Name the city where whole public transport system (buses) runs on CNG.



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7. State whether the following statement is true or false.

Noise is undersirable low level of sound .



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8. State whether the following statement is true or false.

The Water Act was passed in 1974.



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9. State whether the following statement is true or false.

Solid waste refer to anything that goes out in trash.



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10. e-wastes refer to



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