



BIOLOGY

BOOKS - TRUEMAN BIOLOGY

ENVIRONMENTAL ISSUES

Multiple Choice Question

1. A normal component of enviornment 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 Enviornment 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

previosly useful chemical

B. production of useful ecological effect by a

previosly useful chemical

C. heat emissoion due to bomb explosion

D. none of these

Answer: A



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

A. A)1969

B. B)1972

C. C)1970

D. D)1974

Answer: D



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

A. Biomagnification

B. Eutrophication

C. Synergism

D. Green house effect

Answer: C

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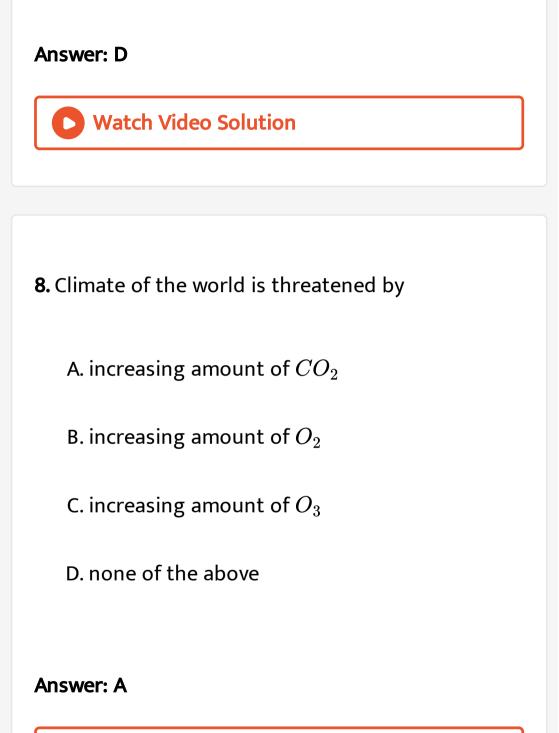
7. Which one is not produced as exhaust of vehicle ?

A. SO_2

 $\mathsf{B.}\,CO_2$

C. *CO*

D. fly ash



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

A. 1)SPM

B. 2) SO_2

C. 3) NO_2

D. 4) $CO \& SO_2$

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



11. Decolouration of lead and silver paints is caused

due to

A. sulphur dioxide

B. carbon monoxide

C. hydrogen sulphide

D. ozone

Answer: C



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. 1) it effects the nervous system

B. 2) it damages lungs

C. 3) it reduce the oxygen carrying capactiy of

haemoglobin

D. 4) it forms acid with water

Answer: C

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14. Chlorosis in plants is mainly caused by

A. 1)CO pollution

B. 2)Arsenic pollution

C. 3) SO_2 pollution

D. 4)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 threatened by pollution from

A. chlorine

B. sulphur dioxide

C. oxgyen

D. hydrogen

Answer: B



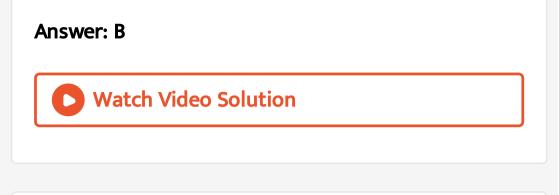
17. Lichen deserts indicate

A. air pollution due to CO

B. air pollution due to SO_2

C. pollution due to smoke

D. noise pollution



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

A. 1) CO_2

B. 2)*CO*

C. 3) CCl_4

D. 4) SO_2

Answer: B

19. The major source of pollution upto 80~% of total air pollution in metropolitan 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

 $\mathsf{B.}\,N_2$

 $\mathsf{C}.SO_2$

 $\mathsf{D}.\,CO$

Answer: D



21. Taj Mahal is being damaged by

A. air pollution from Mathura refinary

B. Yamuna water

C. nuclear pollution and railway yard

D. (1) and (2) both

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 imes 0.4 mg/litre

 $ext{B.}\,0.5 imes0.8mg/litre$

 ${
m C.}\,0.9 imes1.2mg/litre$

D. 1.3 imes 1.6mg/litre



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

A. 1)Parthenium hysterophorous

B. 2)Eichhornia crassipes

C. 3)Opuntia dillenii

D. 4)Sorghum halepense

Answer: A



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

A. SO_2

 $B.O_3$

 $\mathsf{C}.CO_2$

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. 1)London smog

B. 2)Photochemical smog

C. 3)Los Angeles smog

D. 4)All the above

Answer: A

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30. Which is always present in photochemical smog

?

A. 1)Ozone

B. 2) CO_2

C. 3) SO_2

D. 4)*CH*₄

Answer: A



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

A. Peroxyacetyl nitrate

B. Carbon monoxide

C. Carbon dioxide

D. SPM

Answer: A



32. Ultraviolet rays in sunlight cause a reaction that

produces the pollutant

A. 1)CO pollution

B. 2) CH_4

C. 3) SO_2

D. 4)*O*₃



- 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 unsaturated hydrocarbon

Answer: D



A. 1) CO_2

B. 2)CO

C. 3) O_3

D. 4) NO_2

Answer: C



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

A. Ammonia

B. sulphur dioxide

C. Nitrous oxide

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



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

A. 1)skin

B. 2)Liver

C. 3)Lungs

D. 4)Brain

Answer: A



38. The Chernobyl disaster in the then USSR (nor 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



39. Green house gasses like CO_2, CH_4, CFC, N_2O

and house (bromine) are

A. refelector of long wave radiations like infrared

emitted from earth surface

B. transparent to solar short radiatons for

warming of atmosphere

C. absorber of solar radiations for warming of

atmosphere

D. transparent for emmision from earth for

passage to space



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

A. 1) wheat fields marshes

B. 2)Rice fields, cattles and marshes

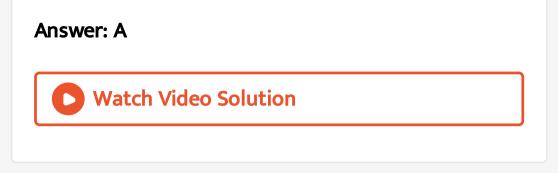
C. 3)Sugarcane plantation and buffaloes

D. 4)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



42. Contribution of methane to global warming is:

A. 6~%

 $\mathsf{B.}\,14~\%$

 $\mathsf{C.}\,20~\%$

D. 30~%

Answer: C



43. The present average temperature of earth is

A. 1) $10^{\,\circ}\,C$

B. 2) $12^{\,\circ}\,C$

C. 3) $14^\circ C$

D. 4) $15^{\,\circ}C$

Answer: D



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 - 400 Hz

B.100 - 1000 Hz

C.20 - 20000 Hz

D. 1000 - 15000 Hz

Answer: C

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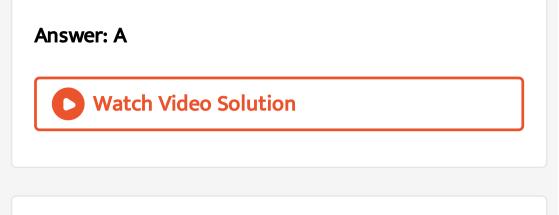
47. Tubifex in water indicates its

A. thermal pollution

B. organic loading

C. toxic Metals

D. high salt contents



48. Highly polluted waters have

A. high Algal water

B. low Algal Genus index

C. no algae at all

D. a few algal genera and a few bacteria

Answer: B



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



50. The first rate pollution monitor are

A. molluscs

B. butterflies

C. honey bee

D. plants

Answer: A



51. Match the following

Acid rain (A) Biological amplification
 DDT (B) Mineral pollution
 BOD (C) Smog
 Eutrophication (D) Sewage pollution
 PAN (E) SO₂

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

52. Events that take place in eutrophication are 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

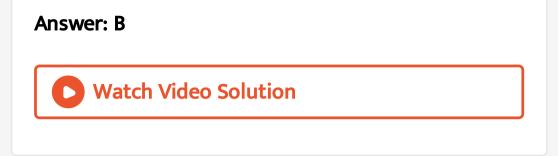
The correct order of events cells that occurs here is

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

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

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

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



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



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



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. agricultural fertilizers

C. sewage and automoblies

D. sewage and agricultural fertilizers

Answer: D

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58. High amount of escherichia coli in water is an indicator of

A. hardness of water

B. industrial polluation

C. sewage pollution

D. presence of chlorine in water

Answer: C



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

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

- $\mathsf{B}.9.0 mg L^{-1}$
- C. $4.0mgL^{-1}$
- D. $8.0 mgL^{-1}$



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

A. biomagnification

B. eutrophication

C. BOD

D. green house effect

Answer: B



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 Bengal'

Answer: D



63. A most harmful 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 atmosphereC. non biodegradable pollutants and 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. Asbestos

C. CFC

D. DDT



71. Knock knee disease is

A. caused by hormonal imbalance and excess of

HCG

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



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



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



74. Black lung disease is common in:

A. farmers

B. workers of textile industries

C. coal miners

D. refinery workers

Answer: C



75. Match the following

	Column I	Column II
	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. $a = 5, b = 4, c = 3, d = 2, e = 1$

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Answer: A

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 discharge which

treatment stage involves biological treatment ?

A. Primary stage

B. Secondary treatment stage

C. Reverse osmosis

D. Tertiary treatment stage

Answer: B



78. The best method to dispose night soil is

A. incineration

B. compositing

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. Superbugs claimed to clean up oil slicks in ocean

is

A. Eschrichia coli

B. Bacillus thuringienesis

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 Enviornmental

Research Institute, Pune

C. National Engencies and Ecological Research

Institute, Mumbai

D. National Ethological and Ecological Research

Institute, New Delhi

Answer: A

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82. Green muffler 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



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. treatment of polluted water

B. promate Pollution due to SO_2

C. bioindicators of SO_2 Pollution

D. green muffler



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

89. Ozone day, world Environment Day and National

Pollution Preventation 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

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



91. e-wastes refer to

A. radioactivity waste

B. nuclear waste

C. can be both (1) and (2)

D. electronic waste



92. Sanitary landfill were adopted as the substitute

for

A. sewage

B. biomagnification

C. eutrophication

D. open-burning dumps



93. Match the items in Column A with those of

Column B.

Column A	Column B
 Water act Air act DDT e-waste Carbon dioxide 	A Biomagnific: n B. Electronic waste C. Greenhouse gas D. 1981 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

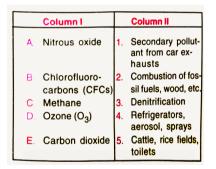


94. Under Column-I, a list of gases that are known to

have a greenhouse effect is given .

Relate them to their main source selecting from the

list given under column-II.



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 particulate pollutants

A. Incinerator

B. Arrester

C. Scrubber

D. Filiter

Answer: A



96. Match the items in Column A with those of

Column B.

Celumn A	Celumn B
Catalytic	a. Particulate matter
converter ii. Electrostatic precipitator	b. CO and Nitrogen exide
iii. Earmuffs iv. Landfills	c. High noise level 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





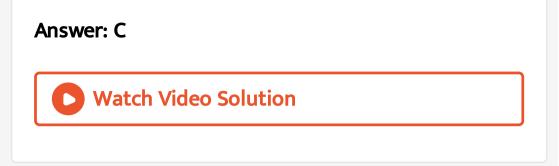
97. The Central Pollution Control Board has recommended zone-wise permissible ambient noise level for residential area during day and night time is

A. 75 dB & 70 dB

B. 65 dB & 55 dB

C. 55 dB & 45 dB

D. 50 dB & 40 dB



98. Which metal inactivates a catalytic converter ?

A. Gold

B. Iron

C. Silver

D. Lead



99. Which of the following is an example of Bioemediation ?

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. Reserve 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 Janeioro was related to:

A. conservation of environment

B. survey of natural resources

C. soil fertility

D. preventation of afforestation

Answer: A



104. Ramsar Convention is related to

A. conservation of weatlands

B. sustainable development

C. nuclear waste management

D. global warming





105. A forest is a

A. biotic community

B. population

C. a protected area

D. succession stage

Answer: A



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

Commision (1980) are about

A. 19.4~%

B. 22.7 %

C. 31 %

D. 13.0 %

Answer: C



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

A. 30~%

 $\mathsf{B.}\,67\,\%$

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



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

A. integrated afforestation

B. social forestry

C. agroforestry

D. production plantation

Answer: A



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



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

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113. Forests near equator region are called-

A. 1) deciduous forests

B. 2)tropical forests

C. 3) coniferous forests

D. 4) grasslands

Answer: B



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

A. It leads to soild 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 (Uttarakhand). It is related with

A. 1)plant/forests conservation

B. 2) afforestation

C. 3) conservation of water resources

D. 4)population control

Answer: A

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116. Which type of forest is the most fertile reservoir

of wild life ?

A. 1)Temperate forests

B. 2)Tropical rain forests

C. 3)Deciduous forests

D. 4) all of the above

Answer: B



117. Jhum cultivation refers to

A. 1) cultivation of Jamun trees

B. 2)cultivation of medical plants by tribes

C. 3) tribal methods of shifting cultivation

D. 4)cultivation of terraces



118. The main causative factor of desertification is

A. overgrazing

B. human Developmental activities

C. irrigated agriculture

D. tourism

Answer: B



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 fetility

D. to provide tree cover to meet daily needs of

society

Answer: D

120. Soil erosion is prevented by

A. afforestation

B. overgrazing

C. removal of weeds

D. increasing birds population

Answer: A

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

fine air borne particles which lead to

A. Soil erosion

B. Dry acid deposition

C. Industrial smog

D. Wet acid deposition

Answer: B

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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

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

124. What is true about the Euro Iv norms

A. 1)It stipulates to control sulphur at 350 ppm

in diesel and 150 ppm in petrol

B. 2) it stipulates to reduce sulphur levels to 50

ppm in petrol and diesel

C. 3) it stipulates to reduce sulphur level to 200

ppm in diesel and petrol

D. 4) it stipulates to reduce sulphur levels to 200

ppm in diesel and 100 ppm in petrol.

Answer: B



125. Which one of the following pairs is mismatched

A. 1)Nuclear power - radioactive wastes

B. 2)Solar energy - greenhouse effect

C. 3)Fossil fuel burning - release of CO_2

D. 4)Biomass burning- release of CO_2

Answer: B

?

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. 1)5.2 - 2.5

B. 2)2.5 or less

C. 3)1.5 or less

D. 4)1.0 or less

Answer: B

127. Choose the correct statement regarding the catalytic coverters.

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

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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 indicats 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 manification the maximum ill effect

is on the zooplanktons

Answer: A

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129. Find the correct match.

A. Dust particles get charged and are thus removed - Catalytic converters B. CO and Nitric oxide arechanged to CO_2 and N_2 gas - Electrostatic precipitators C. Dry composting of human excreta - land fills D. Exhaust is passed throughlime to remove sulphur dioxide - Scrubber

Answer: D

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



131. The highest DDT concentration in aquatic food

chain shall occur in:

A. Phytoplankton

B. Sea Gull/Birds

C. Crab

D. Eel

Answer: B



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

A. $0^{\,\circ}\,C$

- $\mathrm{B.}-5^{\,\circ}\,C$
- $\mathrm{C.}-7^\circ C$
- D. $-20^{\,\circ}\,C$

Answer: D



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

A. DDT

B. Ammonia

 $\mathsf{C}.CO_2$

D. Water

Answer: D



134. What is Peroxy Acetyl Nitrate?



135. A lake was found to harbour alarming level of a pesticide -DDT. The people most affected by accumation 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



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

A. high toxicity to mammals

B. high degree of persistence in the

enviornment

C. low toxicity to insects

D. high solubility in water

Answer: B



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

A. Carbon monoxide, methane,

chloroflurocarbons and oxides of nitrogen

B. Carbon dioxide, oxides of nitrogen , ethane

and chlorofluorocarbons

C. Carbon dioxide, methane chlorofluro 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



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

A. 1)cotton

B. 2)coir

C. 3)wood

D. 4)styro foam



140. Which of the following causes biomagnification

A. 1) SO_2

B. 2)Mercury

C. 3)DDT

D. 4)Both (2) & (3)

Answer: D



141. The expanded form of DDT is

A. 1) dichloro diphenyl trichloroethane

B. 2) dichloro diethyl trichloroethane

C. 3) dichloro dipyrydyl trichloroethane

D. 4) dichloro diphenyl tetrachloroacetate

Answer: A



142. Choose the incorrect statement.

A. 1)The Montreal protocol is associated with the

control of emission of ozone depleting substances

B. 2)Methane and carbon dioxide are green

house gases

C. 3)Dobson units are used to measure oxygen

content

D. 4)Use of incinerators is crucial to disposal of

hospital wastes

Answer: C



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

A. 1)15dB

B. 2)215dB

C. 3)30dB

D. 4)80*dB*

Answer: D

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

B. 2)(i)-A, (ii)-C, (iii)-B, (iv)-D

C. 3)(i)-D, (ii)-A, (iii)-B, (iv)-C

D. 4)(i)-C, (ii)-D, (iii)-B, (iv)-A

Answer: A



145. Which one of the following impuritites is easiest to remove from wastewater ?

A. Bacteria

B. Colloids

C. Dissolved solids

D. Suspended solids

Answer: D

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



147. Match the items in column I and column II and

choose the correct option

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



148. Anthracosis is caused by

A. 1)coal dust

B. 2) iron dust

C. 3)cane fibres

D. 4)silica

Answer: A

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

A. 1)green house effect

B. 2)solar effect

C. 3)ozone layer effect

D. 4)radioactive effect

Answer: A

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

A. 1)Livestock

B. 2)Wet lands

C. 3)Grasslands

D. 4)Forests

Answer: D

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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 sulphu as fuel or

vehicles.

B. Use of non-poullting Compressed Natural Gas (CNG) only as fuel by 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 petrol driven vehicles which tests of carbon monoxide and hydrocarbons

Answer: D



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

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



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

A. 1) CO_2 and N_2O

B. 2) CO_2 & CH_4

C. 3) CH_4 & N_2O

D. 4) CFC_5 & N_2O

Answer: B



155. dB is a standard abbreviation used for the quantitaive 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

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

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

A. 1)5 ppm

B. 2)10 ppm

C. 3)25 ppm

D. 4)50 ppm



158. In human body, the chlorinated hydrocarbons

keep on accumulating in:

A. 1)bones

B. 2)brain

C. 3)skin

D. 4) fatty tissue



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

A. bringing disturbance in calcium metabolism

B. thinning of egg small

C. premature breaking of eggs

D. all the above



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. 1)Assam and West Bengal

B. 2)Maharashtra and Andhra Pradesh

C. 3)Kerala and Sri Lanka

D. 4)Karnataka and Andhra Pradesh

Answer: C

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



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



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

164. "Good ozone" is found in the

A. Mesophere

B. Trophosphere

C. Stratophere

D. lonosphere

Answer: C

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165. In which year Air (Prevention and control of Pollution) Act was amended to include noise as an

air pollutant ?

A. 1972

B. 1981

C. 1987

D. 1990

Answer: C

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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
A	Electrostatic precipitator	1.	Removes gases like SO ₂
В	Scrubber	2.	Reduces automobile emission
С	Catalytic converter	3.	Removes particulate matter

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



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 cerevisae in producing curd on a commerical scale
- C. Working out the efficiency of R.B.Cs about their capacity to carry oxygen

D. Estimating the amount the organic meter in

sewage water



169. Which one of the following is a wrong statement

A. Ozone in upper part of atmoshere 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



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

171. High amount of esherichita 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



173. Global warming can be controlled by:

A. Increasing deforestation, slowing down the

growth of human population

B. Incerasing deforestation, reducing efficiency

of energy usuage.

C. Reducing deforestation , cutting down use of

fossil fuel.

D. Reducing reforestation, increasing the use of

fossil fuel

Answer: C



174. 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



175. 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

176. 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



177. Rachel Carson's famous book " Silent Spring " is

related to

A. noise pollution

B. population explosion

C. ecosystem management

D. pesticide pollution



178. 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

179. 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



180. Increase in concentration of the toxicent at

successive trophic levels is known as

A. Biomagnification

B. Biodeterioration

C. Biotransformation

D. Biogeochemcial cyling

Answer: A



181. Acid rain is caused by increase in the atomospheric 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



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

A. food

B. light

C. essetial minerals

D. oxygen



183. 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



184. 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



185. 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

186. 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

187. A lake with an inflow of domestic sewage rich in

organic wast 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



188. Highest DDT deposition shall occur

A. Phytoplankton

B. Seagull

C. Crab

D. eel

Answer: B



189. 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

190. Match the items given in Column-I with those in

Column II and select the correct option given below

Column I (a)Eutrophication (i)UV-B radiation (B)Sanitary landfill (ii)Deforestation (d) Jhum cultivation (iv) Waste disposal

:

Column II (c)Snow blindness (iii)Nutrient enrichment

 $egin{array}{ccc} a & b & c & d \ i & ii & iv & iii \end{array}$ a b c dΒ. iii iv i ii a b c dC. ^a i iii iv ii ii iii i iv

Answer: B

191. Which of the following is a secondary pollutant

?

A. O_3

B. SO_2

 $\mathsf{C}.CO_2$

 $\mathsf{D}.\,CO$

Answer: A

192. 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



193. World Ozone Day is celebrated on

A. 22nd April

B. 16th September

C. 21st April

D. 5th June

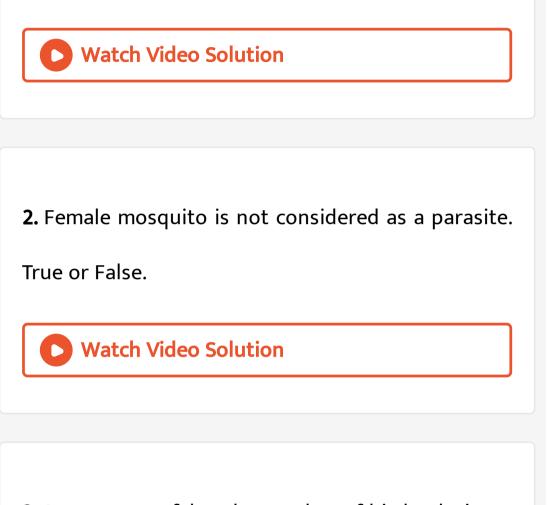
Answer: B

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Check Your Concept Organisms And Population

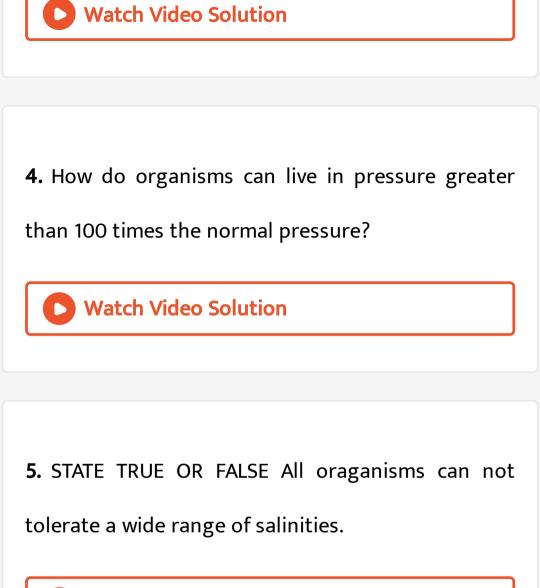
1. STATE TRUE OR FALSE. Opuntia is a mesophytic

plant.



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







6. A stage of suspended development is called
Diapause.
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7. For human populations, the age pyramids generally show age distribution of males and females both.



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

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



10. STATE TRUE OR FALSE .Both species lose in

competition.

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Check Your Concept Ecosystem

1. Earth is an open system regarding matter.

2. STATE TRUE OR FALSE.Mineral cycles are not

balanced.



3. Maximum biomass occurs in temperate forests.

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4. Savannahs are tropical rain forests.

5. Lions and wolves occupy the same trophic level

Watch Video Solution	
6. Pyramid of numbers in pond ecosystem is inverted.	
Watch Video Solution	

7. STATE TRUE OR FALSE .Humans serves as a reservoir of nutrients.

8. STATE TRUE OR FALSE.In oceans productivity is

generally limited by nitrogen.



9. STATE TRUE OR FALSE.Secondary productivity is

the rate of formation of new organic matter by

consumers.



10. Vertical distribution of different species occupying different levels in a biotic community is known as

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Check Your Concept Biodiversity

1. STATE TRUE OR FALSE National parks are reserved

for the conservation of animals only.

2. Fourteen Biosphere reserve have been planned in

india.

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3. Deforestation makes floods and droughts more
frequent.
Vatch Video Solution

4. The term biodiversity was purposed by W.G.

Rosen in 1985.



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



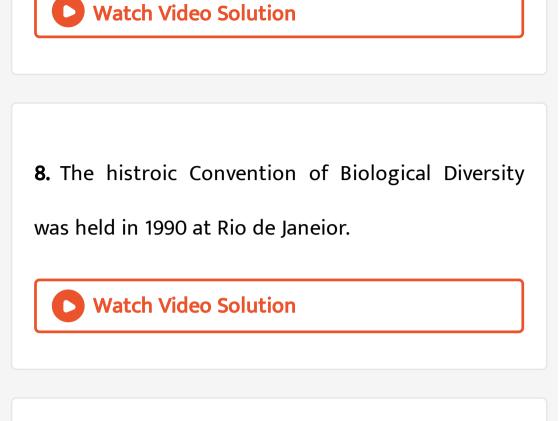
6. Deforestation does not lead to alternation of

local weather conditions.

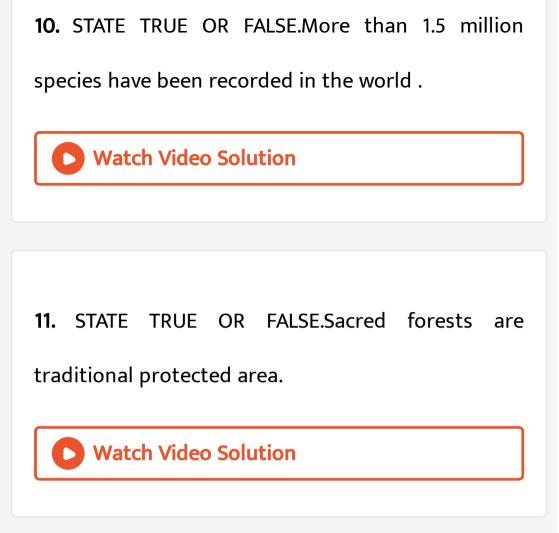


7. Sacred groves are found in bihar





9. STATE TRUE OR FALSE.World Summit on Sustainable Development was held in 2002 at Johannesberg.



12. STATE TRUE OR FALSE. Biodiversity increases from

equator to poles.



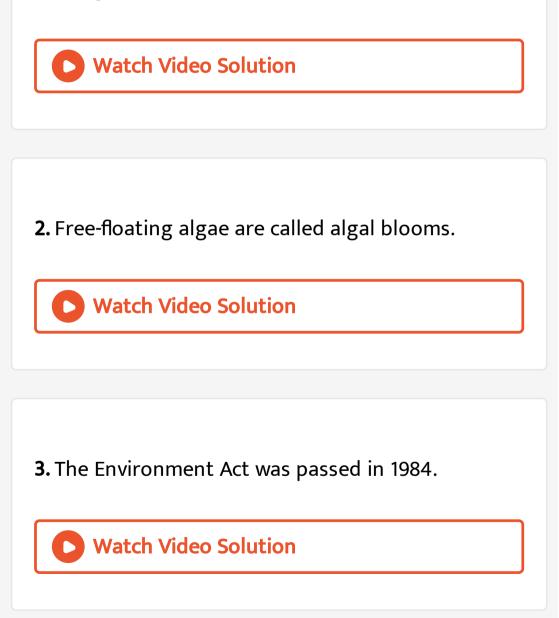
13. Exotic species have a large impact in island ecosystems.

• Watch Video Solution 14. STATE TRUE OR FALSE National parks are reserved for the conservation of animals only. • Watch Video Solution

Check Your Concept Environmental Issues Pollution

1. The natural ageing of a lake is called

biomagnification.



4. The particulate matter can be removed by catalytic convertor.

 Watch Video Solution

5. STATE TRUE OR FALSE. The undersirable change in

the abiotic component of the body is called pollutants.



6. STATE TRUE OR FALSE.All the buses in Delhi run on

CNG.



7. STATE TRUE OR FALSE.Noise is undersirable low

level of sound .

Watch Video Solution

8. The Water Act was passed in 1974.

9. Solid waste refer to anything that goes out in trash.

Watch Video Solution	
10. e-wastes refer to	
Watch Video Solution	