



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

ENVIRONMENTAL ISSUES

Textual Questions Solved

1. Which of the following would most likely help to slow down the greenhouses effect ?

- A. (a) Converting tropical forests into grazing land for cattle.
- B. (b) Ensuring that all excess paper packaging is buried to ashes.
- C. (c) Redesigning landfill dumps to allow methane to be collected.
- D. (d) Promoting the use of private rather than public transport.

Answer: D



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2. With respect to Eichhornia

Statement A: It drains off oxygen from water and is seen growing in standing water.

Statement B: It is an indigenous species of our country.

A. (a) Statement A is correct and Statement B is wrong.

B. (b) Both Statements A and B are correct.

C. (c) Statement A is correct and Statement B is wrong.

D. (d) Both statements A and B are wrong.

Answer: A



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3. Find the wrongly matched pair.

A. Endemism - Species confined to a region and not found anywhere else.

B. Hotspots - western ghats

C. Eex-situ conservation - Zoological parks

D. Sacred groves - saintri hills of Rajasthan

Answer: D



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4. Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancer?

A. a) Ammonia

B. b) Methane

C. c) Nitrous oxide

D. d) Ozone

Answer: D



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5. One green house gas contributes 14% of total global warming and another contributes 6%. These are respectively identified as

A. (a) N_2O and CO_2

B. (b) CFCs and N_2O

C. (c) CH_4 and CO_2

D. (d) CH_4 and CFCs

Answer: B



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6. One of the chief reasons among the following for the depletion in the number of species making endangered is

A. over hunting and poaching

B. green house effect

C. competition and predation

D. habitat destruction

Answer: D



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7. Deforestation means.....

- A. a) growing plants and trees in an area
where there is no forest
- B. b) growing plants and trees in an area
where the forest is removed
- C. c) growing plants and trees in a pond
- D. d) removal of plants and trees

Answer: D



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8. Deforestation does not lead to

A. a) Quick nutrient cycling

B. b) Soil erosion

C. c) alternation of local weather conditions

D. d) Destruction of natural habitat weather conditions

Answer: A



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9. The unit of measuring ozone thickness is

.....

A. Joule

B. Kilos

C. Dobson

D. Watt

Answer: C



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10. People's movement for the protection of environment in Sirsi of Karnataka is

A. Chipko movement

B. Amirtha Devi Bishwas movement

C. Appiko movement

D. None of the above

Answer: C



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11. The plants which are grown in silvopasture system are

- A. Sesbania and Acacia
- B. Solenum and Crotalaria
- C. Clitoria and Begonia
- D. Teak and sandal

Answer: A



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12. What is ozone depletion.



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13. Give four examples of plants cultivated in commercial agroforestry.



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14. Expand CCS.



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15. How do forests help in maintaining the climate?



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16. What are sacred groves? What is their role in conservation?



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17. Which one gas is most abundant out of the four commonest greenhouse gases? Discuss the effect of this gas on the growth of plants?



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18. Suggest a solution to water crisis and explain its advantages.



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19. Explain afforestation with case studies.



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20. What are the effects of deforestation and benefits of agroforestry?



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Additional Questions 1 Marks Questions

1. _____ is not a green house gas.

A. CO_2

B. N_2O

C. O_3

D. CFC

Answer: C



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2. Find the incorrect statement:

A. Leads to species enrichment

B. Decreases irrigation

C. Increases vector population

D. Frequent heat waves

Answer: A



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3. is the unit of measurement of total ozone.



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4. The total ozone layer over the earth surface is.....

A. a) 30 DU

B. b) 300 DU

C. c) 3000 DU

D. d) 0.3 DU

Answer: B



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5. Methane is times as effective as CO_2 at trapping heat.

A. 5

B. 10

C. 20

D. 100

Answer: B



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6. Which is not a beneficial aspect of Agroforestry?

A. (a) Nutrient cycling is improved

B. (b) Balance in $O_2 - CO_2$ composition

C. (c) Suitable for wet land where rainfall is maximum

D. (d) Reduces water run-off problem

Answer: C



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7. The plants which are grown in silvopasture system are



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8. Assertion (A): CO_2 , is a main cause for global warming

Reason (R) : Greenhouse gases trap the radiant heat from sun

A. A is correct R is incorrect.

B. A is incorrect R is correct.

C. R explains A.

D. Both A and R are incorrect

Answer: C



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9. Assertion (A) : Ozone acts as a natural sun block.

Reason (R) : UV rays reaching the earth are deviated from earth.

A. A is correct R is incorrect.

B. A is incorrect R is correct.

C. R explains A.

D. Both A and R are incorrect

Answer: C



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10. Assertion (A): Social forestry refers to management of forests and afforestation on barren lands.

Reason (R): Afforestation involves the cutting of trees.

A. a) A is correct R is incorrect.

B. b) A is incorrect R is correct.

C. c) R explains A.

D. d) Both A and R are incorrect

Answer: A



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11. Assertion (A): *Prosopis juliflora* is native to Afganistan.

Reason (R): Alien species refers to non-native species.

A. A is correct R is incorrect.

B. A is incorrect R is correct.

C. R explains A.

D. Both A and R are incorrect

Answer: B



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12. Assertion (A) : In zoological parks, the animals are maintained in their natural habitat.

Reason (R) : Ex - situ conservation refers to protecting species in their natural habitat.

A. A is correct R is incorrect.

B. A is incorrect R is correct.

C. R explains A.

D. Both A and R are incorrect

Answer: D



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13. Which is not reduced by deforestation?

A. a) Amount of habitat

B. b) Amount of animal population

C. c) Amount of biodiversity

D. d) Amount of agricultural land

Answer:



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14. Identify the potent cause for deforestation.

A. (a) Agriculture

B. (b) Soil erosion

C. (c) Afforestation

D. (d) Forest fire

Answer: A



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15. Total number of forestry extension centres in Tamil Nadu is

A. a) 16

B. b) 32

C. c) 18

D. d) 51

Answer: B



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16. Who is called as the forest man of India?

A. Anand Mohan Chakrabarthy

B. Dr. M.S. Swaminathan

C. Jadav Molai Payeng

D. Choudhary Ram Dhan

Answer: C



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17. Invasive species...

A. (a) alter the soil system

B. (b) are more adapted

C. (c) are fast growing

D. (d) all the above

Answer: D



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18. Pick the odd one out

A. (a) Biosphere reserve

B. (b) National parks

C. (c) Wild life sanctuaries

D. (d) Botanical gardens

Answer: D



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19. Which is not true with respect to *Prosopis juliflora*?

A. Invasive species native to Mexico

B. Arrest wind erosion

C. Absorb hazardous chemical from soil

D. Decreases O_2 content of water bodies

Answer: D



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20. How many numbers of sacred grooves were documented in Tamil Nadu?

A. 484

B. 844

C. 488

D. 448

Answer: D



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21. Match the following:

Endemic Plants

- (A) *Baccaurea courtallensis*
- (B) *Hardwickia binata*
- (C) *Bentinckia condappana*
- (D) *Nepenthes khasiyana*

Endemic centre

- (i) Western ghats of Tamil Nadu
- (ii) Khasi hills
- (iii) Southern Western ghats
- (iv) Northern India

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

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

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

D. d) A - ii, B - iv, C-i, D-i.

Answer: A



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22. Heating biomass in a low oxygen environment represents



23. Biochar is (i) a kind of char coal used as a soil amendment (ii) a potent way of sequestering cash (iii) made from biomass via pyrolysis (iv) a notable solid, rich in carbon.

- A. (a) (i) and (iii) is correct
- B. (b) (ii) and (iv) is correct
- C. (c) (i) and (ii) is correct
- D. (d) all the above is correct

Answer: D



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24. Which is not a true statement regarding rain water harvesting?

A. a) Mitigates groundwater quality

B. b) Reduces soil erosion

C. c) Decreases soil salinity

D. d) No wastage of land for storing

Answer: A



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25. EIA stands for.....

- A. Ecological Information Analysis
- B. Environmental Information Assessment
- C. Environmental Impact Analysis
- D. Environmental Impact Assessment

Answer: D



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26. is the 100th Satellite launched to watch border surveillance.

A. a) GSAT-6A

B. b) SCAT SAT-I

C. c) INSAT 3DR

D. d) CARTOSAT-2

Answer: D



27. Ozone is found in the ____ layer of the atmosphere.

A. Stratosphere

B. Mesosphere

C. Troposphere

D. Exosphere

Answer: C



28. The Ozone Day is observed every year on September 16 as on this day in 1987 the _____ was signed for launching efforts to arrest the depletion of the fragile ozone layer in the stratosphere that prevents the harmful ultra violet rays of the sun from reaching the earthh, Fill the correct word in blank.

A. June 17th

B. December 1st

C. October 12th

D. September 16th

Answer: D



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29. Clean Development Mechanism (CDM) is defined in....

A. Copenhagen Acord

B. Montreal Protocol

C. Paris Agreement

D. Kyoto Protocol

Answer: D



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30. A plant indicator for Flouride pollution

A. Petunia

B. Lichens

C. Gladiolus

D. Pinus

Answer: A



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31. Identify the plant species that is not used as a live fence.

A. *Sesbania grandiflora*

B. *Acacia* species

C. *Petunia* species

D. *Erythrina* species

Answer: C



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32. Match the following:

- | | |
|--------------------------|------------------|
| (A) Agroforestry species | (i) Pinus |
| (B) Invasive species | (ii) Acacia |
| (C) Live fence | (iii) Eichhornia |
| (D) Phytoindicator | (iv) Casuarinas |

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

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

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

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

Answer: A



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Additional Questions 2 Marks Questions

1. What are greenhouse gases? Give an example.



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2. Name any four green house gases.



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3. Suggest few ways to overcome global warming.



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4. Methane is one of a potent green house gas. Point out few sources from where

methane is generated.



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5. List out the anthropogenic sources of Nitrous oxide.



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6. What is Dobson unit?



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7. What do you mean by good ozone and bad ozone?



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8. What is ozone layer? Why it is essential?



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9. Define ozone hole. Name any one potent chemical that is responsible for the effect.



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10. Where did Montreal Protocol was held?

State its objectives.



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11. What is meant by biological indicators ?

Give example .



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12. A plant indicator for Flouride pollution



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13. Define the term Agroforestry. Name any two major tree species cultivated in Agroforestry.



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14. What is silvopasture system? How it helps economy?



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15. Mention the name of any four plant species that are widely used as live fences in agricultural practice.



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16. Define social forestry.



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17. Compare Deforestation and Afforestation



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18. What is invasive species?



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19. Point out the adverse effect caused by invasive species



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20. Distinguish between In-situ conservation and Ex-situ conservation



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21. Mention any two historical community level conservation movements held for the protection of environment.



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22. How many numbers of sacred grooves were documented in Tamil Nadu?



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23. What does the term 'Endemic' refers to?



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24. Name any two endemic trees of Peninsular India.



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25. What is carbon sequestration?



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26. Carbon sequestration occurs naturally by plants and oceans. Name any four microalgal species involved in the process.



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27. Explain the term Carbon sink.



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28. How EIA is beneficial to a society?



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29. What is GIS?



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Additional Questions 3 Marks Questions

1. Discuss the causes and effects of global warming. What measures need to be taken to control global warming?



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2. Mention any three sources of carbon dioxide emission.



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3. What are the adverse effects of global warming on plants?



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4. Suggest few ways to overcome global warming.



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5. Ozone acts as a natural sun screen-Justify.



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6. Give a detailed account on clean development mechanism.



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7. What are the major activities carried out by forestry extension centres?



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8. *Prosopis juliflora*, though an alien invasive species to India, it is beneficial to certain extent. Give reason.



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9. Write a short note on Chipko Movement.



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10. Give a brief account on In-situ conservation.



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11. What do you mean by Biochar? How it helps the environment?



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12. Explain the role of lakes in an ecosystem.



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Additional Questions 5 Marks Questions

1. What is ozone depletion.



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2. What are the objectives of Afforestation programme?



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3. How Eichhornia crassiper spoils the Indian ecosystem ?



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4. Write a comparative note on Carbon Foot Print (CFP)



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5. Write in detail about Remote sensing and its uses.



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High Order Thinking Skills Hots Questions

1. Name the movement launched by the people of Mandal village to protect the trees by hugging them.



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2. Recently in January 2019, our Tamil Nadu Government had imposed a ban on using 14 different products of plastic origin. Mention any six plastic products that you know



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3. Due to plastic ban scheme in our state, people are gradually switching over to other optionals for daily activities. As a biology

student, suggest few eco-friendly alternatives for this issue.



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4. Deforestation is creating various adverse effect on environment. Enlist the consequences of deforestation.



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