



BIOLOGY

BOOKS - SANTRA BIOLOGY (BENGALI ENGLISH)

ENVIRONMENT, ITS RESOURCES AND THEIR CONSERVATION

Exercise Multiple Choice Questions

1. Which one is nitrogen fixing bacteria?

A. E. coli

B. Bacillus

C. Rhizobium

D. Helicobacter

Answer:



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2. Free living bacteria are

A. Clostridium

B. Rhizobium

C. Helicobacter

D. Bacillus

Answer:



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3. Molecular nitrogen fixing blue green algae are

A. Oedogonium

B. Chlorella

C. Nostoc

D. Volvox

Answer:



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4. Acid rain caused by

A. Air pollution

B. Water pollution

C. Soil pollution

D. Sound pollution

Answer:



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5. Which one is green house gas ?

A. CO_2

B. O_2

C. N_2

D. CH_3

Answer:



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6. Which one is lung disease ?

A. Gastric

B. jaundice

C. Asthma

D. None of them

Answer:



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7. Eutrophication is caused by

A. Water pollution

B. Air pollution

C. Soil pollution

D. Sound pollution

Answer:



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8. Hypertension, sleep disturbances are caused by

A. Sound pollution

B. Air pollution

C. Water pollution

D. Soil pollution

Answer:



9. Polluted water carrying diseases are

- A. Bronchitis
- B. Lung cancer
- C. Cholera
- D. Malaria

Answer:



10. Biological magnification is caused by

A. Soil pollution

B. Water pollution

C. Air pollution

D. Sound pollution

Answer:



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11. Chest tightness is a symptoms of

A. Bronchitis

B. Cancer

C. Asthma

D. Jaundice

Answer:



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12. Production of large amount of mucous in

A. Asthma

B. jaundice

C. Bronchitis

D. Cancer

Answer:



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13. Malignant tumour formed in

A. Cancer

B. Asthma

C. Bronchitis

D. Jaundice

Answer:



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14. Medicine is the source of

A. Asbestor

B. Benzene

C. Coal ter

D. Arsenic compound

Answer:



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15. Prostate cancer is caused by

A. Cadmium compound

B. Benzene

C. Asbestor

D. Coal ter

Answer:



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16. Which one is exotic plant ?

A. Lantana

B. Solanum

C. Hibiscus

D. Pisum

Answer:



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17. Which one is mangrove plant ?

A. Ficus

B. Pisum

C. Avicennia

D. Cocos

Answer:



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18. In which year, Myers developed hot spots determined by 4 factors

A. 1988

B. 1990

C. 2000

D. 2001

Answer:



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19. Which one is the in-situ conservation ?

A. Zoological garden

B. Botanical garden

C. Sanctuary

D. Cryopreservation

Answer:



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20. Which one is the ex-situ conservation ?

A. Biosphere reserve

B. Sanctuary

C. National park

D. Botanical garden

Answer:



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21. All plants and animals are preserved in their natural habitat in

A. Sanctuary

B. National park

C. Reserve forest

D. Biosphere reserve

Answer:



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22. In which year JFM was started in West Bengal?

A. 1970

B. 1971

C. 1975

D. 1980

Answer:



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23. The number of tiger reserve in India is

A. 26

B. 27

C. 25

D. 20

Answer:



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24. Which of the following phase of nitrogen cycle psuedomonas is associated with

A. Nitrogen flaxation

B. Nitrification

C. Denitrification

D. Ammonification

Answer:



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25. One endangered species of the eastern Himalayas biodiversity hotspot is

A. Lion tailed macaque

B. Orangutan

C. Red panda

D. Nilgiri tahr

Answer:



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Exercise Fill In The Blanks

1. Anabaena lives inside the leaves of _____



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2. Mercury causes _____ disease in man.



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3. Carcinoma cancer mainly occur in _____
tissue.



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4. Manas National Park is a biosphere reserve for _____.



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5. The number of hotspots in India are _____.



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6. An inflammable greenhouse gas produced from paddy field is _____.



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Exercise Mention True Or False

1. Mention True or False: *Bacillus ramosus* is a nitrifying bacteria.



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2. Mention True or False: DDT is a kind of non-degradable chemical .



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3. Mention True or False: The logistic growth curve is S shaped.



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4. Mention True or False: In Tamil nadu, Simlipal biosphere reserve is situated.



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5. Mention True or False: Cryopreservation occurs in $-196^{\circ}C$.



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6. Mention True or False: Degradable pollutant is responsible for biomagnification.



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Exercise Very Short Answer Vsa Type Questions

1. What are the oxide form of nitrogen present in the atmosphere ?



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2. Name one nitrogen fixing bacteria.



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3. Give the name of one living heterotrophic bacteria.



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4. What is the function of leghaemoglobin



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5. Mention two non-leguminous angiospermic plants.



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6. Who is the discoverer of 'Haber-process'?



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7. Give one example of nitrification involving bacteria.



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8. Name two denitrifying bacteria.



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9. State one important significance of nitrogen cycle.



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10. What do you mean by pollutants ?



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11. What do you mean by SPM ?



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12. Define algal bloom.



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13. Name two pathogenic organism which causes water pollution.



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14. Mention the cause of itai-itai disease ?



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15. What are the green house gases ?



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16. Name two pesticides which are used in agricultural field.



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17. State about the types of bronocitis.



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18. Mention the two symptoms of asthma.



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19. What is neoplasia ?



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20. Mention the source of arsenic compound.



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21. Name one exotic Species.



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22. Mention two mangrove species in Sundarban.



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23. State the main characteristics of sanctuary.



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24. Give examples in West Bengal and rest of India of National Park.



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25. Name one site of crocodile conservation ?



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26. Write the name of the cause of the latest concern regarding the environment of sundarbans.



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27. Among the following four terms one includes the other three. Find out that term and write it :Embryo. Meristematic tissue, Speed, Cryopreservation.



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Exercise Short Answer Sa Type Questions

1. What is nitrogen cycle ?



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2. What is biological nitrogen fixation?



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3. What is the role of leghaemoglobin during nitrogen fixation ?



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4. What is ammonification ?



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5. Define nitrification.



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6. What is denitrification?



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7. What are the significance of nitrogen cycle ?



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8. What do you mean by pollution ?



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9. What is acid rain ?



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10. What are the SPM ?



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11. What is eutrophication ?



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12. Give the definition of biological magnification.



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13. What is over-population ?



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14. What do you mean by deforestation ?



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15. What do you mean by irritative bronchitis ?



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16. Why cancer is know as malignant tumor ?



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17. Define biodiversity.



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18. Give four name of mangrove species is Sundarban.



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19. What is in-situ conservation ?



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20. Give the characteristic feature of biosphere reserve.



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21. What is ex-situ conservation ?



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22. What are the characteristic of botanical garden ?



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23. Mention the characteristics of cryopreservation.



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24. Define joint Forest management (JFM).



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25. What is PBR ?



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26. Write names of two micro organisms participating in the process of biological nitrogen fixation.



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27. Give four examples of damages of biodiversity as a result of global warming.



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Exercise Long Answer La Type Questions

1. What is nitrogen cycle ? Briefly describe the nitrogen fixation process. [2 + 3]



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2. What are the nitrification and denitrification of nitrogen cycle ?



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3. What is the relation between human activities and nitrogen cycle ?



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4. What are the effect of noise pollution on human and animals ?



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5. Briefly describe the effect of air pollution on acid rain and lung disease. What is green house gases ? [3 + 2]



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6. What is the agricultural runoff in respect to water pollution ? What are the diseases in human caused by water pollution ? [3 + 2]



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7. What are the problems of ever increasing population ?



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8. Describe the reasons behind the loss of biodiversity.



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9. Describe the factors of environmental problems in Sundarban.



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10. Write the importance of biodiversity.



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11. What is biological magnification ? Briefly mention the effect of soil pollution on human.

[3 + 2]



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12. State about the botanical garden and cryopreservation along with their features and examples.





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13. What is the origin and objective of JFM?



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14. Mention the significance of PRB.



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15. Describe about the conservation sites and action for conservation of tiger.



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16. Mention on the action plan for Rhino project.



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17. Describe the action plan for conservation of 'Project Red Panda' and action plan for conservation of crocodile.



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18. Define zoological garden with characteristic features and an example.



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19. Describe national park and sanctuary with an example.



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20. How environment pollution causes cancer ?



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21. What are the causes of asthma ? What are the roles of joint Forest Management in the conservation of biodiversity.[2 + 3]



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