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## **NTSE BIOLOGY SAMPLE PAPER**

1. The term 'nonessential amino acids' is applied to fatty acids that are
  - (a) synthesized in the body
  - (b) water-soluble
  - (c) required by the body but not essential
  - (d) useless
  
2. Cholesterol is related to
  - (a) fats
  - (b) pancreas
  - (c) proteins
  - (d) spleen
  
3. Which one of the following components of ecosystem comes from outside?
  - (a) Temperature
  - (b) Insects
  - (c) Energy
  - (d) Oxygen
  
4. Good soil is
  - (a) which allows the limited amount of water into it
  - (b) which allows to percolate the water slowly from it
  - (c) which allows to pass water very quickly from it
  - (d) which holds whole of water into it
  
5. A fertile soil is likely to have a pH value of
  - (a) 3-4
  - (b) 8-9
  - (c) 6-7
  - (d) 10-11
  
6. Water is a resource
  - (a) degradable maintainable
  - (b) non-degradable maintainable

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- (c) renewable (d) non-renewable
7. Main cause of soil erosion  
(a) afforestation (b) less rains  
(c) thinning of ozone layer (d) deforestation
8. The bulk fixation of carbon through photosynthesis takes place in  
(a) crop plants (b) oceans  
(c) tropical rain forests (d) tropical rain forests and crop plants
9. If a photosynthesizing plant release oxygen containing more than the normal amount of  $^{18}\text{O}$ , it is concluded that the plant has been supplied with  
(a)  $\text{C}_6\text{H}_{16}\text{O}_6$  containing  $^{18}\text{O}$  (b)  $\text{H}_2\text{O}$  containing  $^{18}\text{O}$   
(c)  $\text{CO}_2$  containing  $^{18}\text{O}$  (d) Oxygen in the form of ozone
10. A marine bony fish continuously  
(a) acquire water and get rid of salt (b) get rid of both water and salt  
(c) get rid of water and acquire salt (d) acquire both water and salt
11. A freshwater fish must continuously  
(a) acquire water and get rid of salt (b) get rid of both water and salt  
(c) acquire both water and salt (d) get rid of water and acquire salt
12. Which of the following is a weed killer?  
(a) 2, 4-D (b) NAA  
(c) ABA (d)  $\text{GA}_3$

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13. Storage sprouting of potato can be prevented by

- (a) malic hydrazide
- (b) cytokinins
- (c) gibberellins
- (d) IAA

14. World environment day is

- (a) 5th June
- (b) 28th February
- (c) 5th August
- (d) 28th April

15. Measurement of rate of oxygen utilization by a unit volume of water over a period of time is to measure

- (a) biochemical oxygen demand
- (b) biosynthetic pathway
- (c) biogas generation
- (d) fermentation

16. Eutrophication leads to death of fish due to

- (a) increased  $O_2$  content
- (b) increased algae content
- (c) decreased algae content
- (d) decreased  $O_2$  content

17. The two great industrial tragedies namely, MIC and Chernobyl tragedies respectively occurred where and at which time?

- (a) Bhopal 1984, Ukraine 1990
- (b) Bhopal 1984, Ukraine 1988
- (c) Bhopal 1984, Ukraine 1986
- (d) Bhopal 1986, Russia 1988

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1. (a)

2. (a)

3. (c)

4. (b)

5. (c)

6. (a)

7. (d)

8. (b)

9. (b)

10. (a)

11. (d)

12. (a)

13. (a)

14. (a)

15. (a)

16. (d)

17. (c)