

ASSIGNMENT Class X SUBJECT-BIOLOGY DATE-15.04.2020 Teacher: Mrs. Sandhya Sood

1) Which one of the following is an artificial ecosystem?

- (a) Pond (b) Crop field (c) Lake (d) Forest

2) In a food chain, the third trophic level is always occupied by

- (a) Carnivores (b) Herbivores (c) Decomposers (d) Producers

3) An ecosystem includes:-

- (a) all living organisms (b) non-living organisms
(c) both living organisms and non-living objects
(d) Sometimes living organisms and non-living objects

4) In the given food chain suppose the amount of energy at fourth trophic level is 5kJ, what will be the energy available at the producer level

- (a) 5kJ (b) 50kJ (c) 500kJ (d) 5000kJ

5) Accumulation of non-biodegradable pesticides in the food chain in increasing amount at each higher trophic level is known as

- (a) eutrophication (b) pollution (c) Bio magnification (d) Accumulation

6) Depletion of ozone is mainly due to

- (a) chlorofluorocarbon compounds (b) carbon monoxide
(c) methane (d) pesticides

7) Organisms which synthesis carbohydrates from organic compounds using radiant energy are called

- (a) Decomposers (b) Producers (c) Herbivores (d) Carnivores

8) In an ecosystem, the 10% of energy available for transfer from one trophic level to the next in the form of

- (a) heat energy (b) light energy (c) chemical energy (d) mechanical energy

9) Organisms of a higher trophic level which feed on several types of organisms belonging to a lower trophic level constitute the

- (a) food web (b) ecological pyramid (c) ecosystem (d) food chain

10) Flow of energy in an ecosystem is always

- (a) unidirectional (b) bidirectional (c) multidirectional (d) no specific direction

11) Excessive exposure of humans to UV rays results in

- [i] damage time immune system [ii] damage to lungs
[iii] skin cancer [iv] peptic ulcers

- (a) [i] and [ii] (b) [ii] and [iv] (c) [i] and [iii] (d) [iii] and [iv]

12) In the following groups of materials which group(s) contain only non-biodegradable items?

- [i] wood,paper,leather [ii] polythene, detergent, PVC
[iii] Plastic,detergent,grass [iv] plastic, Bakelite, DDT

- (a) [iii] (b) [iv] (c) [i] and [iii] (d) [iii] and [iv]

13) Which of the following limits the no. of trophic levels in a food chain?

- (a) decrease in energy at higher trophic levels (b) deficient food supply
(c) Polluted air (d) water

14) Which of the following statement is incorrect?

- (a) All green plants and blue green algae are producers
(b) Green plants get their food from organic compounds
(c) producers prepare their own food from inorganic compounds
(d) plants convert solar energy into chemical energy

15) Which groups of organisms are not constituents of a food chain?

[i] Grass, lion, rabbit, wolf

[ii] Plankton, man, fish, grasshopper

[iii] Wolf, grass, snake, tiger

[iv] Frog, snake, eagle, grass, grasshopper

(a) [i] and [iii]

(b) [iii] and [iv]

(c) [ii] and [iii]

(d) [i] and [iv]

16) The percentage of solar radiation absorbed by all the green plants for the process of photosynthesis is about

(a) 1%

(b) 5%

(c) 8%

(d) 10%

17) What will happen if deer is missing in the food chain given below ? Grass—> Deer—> Tiger

(a) The population of tiger increases

(b) The population of grass decreases

(c) Tiger will start eating grass

(d) The population of tiger decreases and the population of grass increases

18) The decomposers in an ecosystem:-

(a) convert inorganic material, to simpler forms

(b) convert organic material to inorganic forms

(c) convert inorganic materials into inorganic compounds

(d) do not breakdown organic compounds

19) If a grasshopper is eaten by a frog, then the energy transfer will be from

(a) producer to decomposers

(b) producer to primary consumer

(c) primary consumer to secondary consumer

(d) secondary consumer to primary consumer

20) Disposable plastic plates should not be used because

(a) they are made of materials with light weight

(b) they are made of toxic materials

(c) they are made of biodegradable materials

(d) they are made of non-biodegradable materials