

RAVI MATHS TUITION CENTER , CHENNAI- 82. WHATSAPP - 8056206308

Our Environment T2

10th Standard

Science

15 x 1 = 15

- 1) In an ecosystem, the 10% of energy available for transfer from one trophic level to the next is in the form of
 - (a) Heat energy
 - (b) Light energy
 - (c) Chemical energy
 - (d) Mechanical energy
- 2) Flow of energy in an ecosystem is always
 - (a) Unidirectional
 - (b) Bidirectional
 - (c) Multi directional
 - (d) No specific direction
- 3) In the following groups of materials, which group(s) contains only non-biodegradable items?
 - (1) Wood, paper, leather
 - (2) Polythene, detergent, PVC
 - (3) Plastic, detergent, grass
 - (4) Plastic, Bakelite, DDT
 - (a) 3
 - (b) 4
 - (c) 1 and 3
 - (d) 2 and 4
- 4) Which of the 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
- 5) 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 %
- 6) The decomposers in an ecosystem
 - (a) Convert inorganic material, to simpler forms
 - (b) Convert organic material to inorganic forms
 - (c) Convert inorganic materials into organic compounds
 - (d) Do not breakdown organic compounds
- 7) 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
- 8) Which human-made material cannot be broken down by the action of bacteria?
 - (a) human flesh
 - (b) flesh of dead animal
 - (c) vegetable peels
 - (d) plastic
- 9) Which of the following is an example of non-biodegradable substance?
 - (a) Virgin plastic
 - (b) Plastic
 - (c) Plants
 - (d) Plant products
- 10) Which of the following constituents do not form ecosystem?
 - (a) Biotic constituents
 - (b) Plastic bags
 - (c) Abiotic constituents
 - (d) All of these
- 11) Which of the following is a functional unit of environment?
 - (a) Ecosystem
 - (b) Nitrogen
 - (c) Carbon
 - (d) Oxygen
- 12) Which of the following is an example of herbivores
 - (a) Cow
 - (b) Shark
 - (c) Lion
 - (d) Tiger
- 13) Which of the following is not an example of abiotic factors?
 - (a) Light
 - (b) Plants
 - (c) Heat
 - (d) Temperature
- 14) Which of the following is not a biodegradable pollutant?
 - (a) Paper
 - (b) Cotton cloth
 - (c) Cotton
 - (d) DDT

15) Which of the following belong to same trophic level?

- (a) Cockroach and spider (b) Lizard and spider (c) Hawk and spider (d) Lizard and hawk

5 x 1 = 5

16) **Assertion** : Food waste can be converted to compost by burying in a pit dug into ground and used as manure.

Reason: Non-biodegradable wastes like fruit and vegetable peels, tea leaves, broken glass jar are ideal for composting

Codes

- (a) Both A and R are true and R is correct explanation of the assertion.
(b) Both A and R are true but R is not the correct explanation of the assertion.
(c) A is true but R is false.
(d) A is false but R is true

17) **Assertion**: Hospital wastes like used syringes, urine bags, etc. can be incinerated.

Reason: Incineration burns the waste at very high temperature and converts it to ashes.

Codes

- (a) Both A and R are true and R is correct explanation of the assertion.
(b) Both A and R are true but R is not the correct explanation of the assertion.
(c) A is true but R is false.
(d) A is false but R is true

18) **Assertion**: Paper cups are better option than plastic cups for serving tea. Reason: Paper cups are biodegradable and can even be disposed of by burning.

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19) **Assertion**: Most of the solid waste in urban areas is disposed off in landfills. Reason: Landfills are high lying areas of the ground.

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20) **Assertion**: Ozone is very important layer of atmosphere.

Reason: Ozone protects the living organisms from harmful UV radiations of sun.

Codes

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(b) Both A and R are true but R is not the correct explanation of the assertion.
(c) A is true but R is false.
(d) A is false but R is true

6 x 5 = 30

21) If all the waste we generate is biodegradable, will this have no impact on the environment?

22) Why is damage to the ozone layer a cause for concern? What steps are being taken to limit this damage?

23) (a) What is 'environmental pollution'?

- (b) Distinguish between biodegradable and non-biodegradable pollutants.
(c) Choose the biodegradable pollutants from the list given below:
Sewage, DDT, radioactive waste, agricultural waste.

24) (a) What is an ecosystem? List its two main components.

- (b) We do not clean ponds or lakes, but an aquarium needs to be cleaned regularly. Explain.

25) Distinguish between biodegradable and non-biodegradable substances. List two effects of each of them on our environment.

26) What is the importance of ozone in the environment? Why is it depleting? What precautions are taken to preserve it?