

INDIAN SCHOOL NIZWA
CLASS X SUB: BIOLOGY CLASS TEST – 10 MARKS

MCQs. (5 marks)

Q.1 In the given food chain, suppose the amount of energy at the fourth trophic level is 5 kJ, what will be the energy available at the producer level?

Grass → Grasshopper → Frog → Snake → Hawk

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

2. The Food web is constituted by:

- (a) relationship between the organisms and the environment
- (b) relationship between plants and animals
- (c) various interlinked food chains in an ecosystem
- (d) relationship between animals and the environment

3. With regard to various food chains operating in an ecosystem, man is a:

- (a) Consumer
- (b) Producer
- (c) Producer and consumer
- (d) Producer and decomposer

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

- (I) Wood, paper, leather
- (II) Polythene, detergent, PVC
- (III) Plastic, detergent, grass
- (IV) Plastic, Bakelite, DDT
- (a) (I)
- (b) (II)
- (c) (I) and (II)
- (d) (II) and (IV)

5. Which of the following limits the number of trophic levels in a food chain?

- (a) Decrease in energy at higher trophic levels
- (b) Deficient food supply
- (c) Polluted air
- (d) Water

2. Explain the reason Why in a food chain (2)

- i) the flow of energy from one trophic level to the other is an average 10%
- ii) it is unidirectional.

3. a) Create a food chain of the following organisms: (3)

Insects, Hawk, Grass, Snake, Frog

- b) Name the organism at the third trophic level of the created food chain.
- c) Which organism of this food chain will have the highest concentration of non-biodegradable chemicals?
- d) Name and define the phenomenon associated with it.
- e) If 10,000 joules of energy is available to frogs, how much energy will be available to snakes in this food chain?

