

HOTS (Higher Order Thinking Skills)

Q.1. Select the mis – matched pair in the following and correct it.

(a) Biomagnification – Accumulation of chemicals at the successive trophic levels of a food chain.

(b) Ecosystem – Biotic components of environment

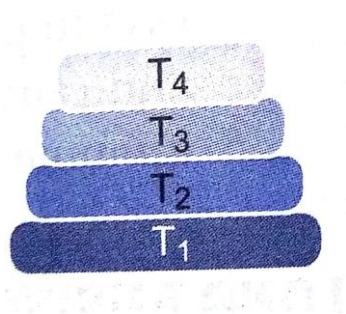
(c) Aquarium – A man-made ecosystem

(d) Parasites – Organisms which obtain food from other living organisms

Ans. (b) is not a matching pair.

Both biotic and abiotic components of environment constitute an ecosystem.

Q.2. In the given figure, the various trophic levels are shown in a pyramid. At which trophic level is maximum energy available?



Ans. At T₁, maximum energy is available because it comprises of the producers.

Q.3. What will be the direction of energy transfer in each of the following cases?

(a) Grasshopper is eaten by a frog.

(b) A deer feeds on grass.

(c) A deer is eaten by a lion

Ans. (a) primary consumer to secondary consumer.

(b) Producer to primary consumer.

(c) Secondary consumer to tertiary consumer.