



# BIOLOGY

## BOOKS - TRUEMAN BIOLOGY

### NCERT Exemplar Questions +2 (ECOSYSTEM)

#### Mcqs

1. Decomposers like fungi and bacteria are:

(i) Autotrophs

(ii) Heterotrophs

(iii) Saprotrophs

(iv) Chemo-autotrophs.

Choose the correct answer:

A. (i) and (iii)

B. (i) and (iv)

C. (ii) and (iii)

D. (i) and (ii)

**Answer: c**



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2. The process of mineralisation by micro-organisms helps in the release of:

A. inorganic nutrients from humus

B. both organic and inorganic nutrients  
from detritus

C. organic nutrients from humus

D. inorganic nutrients from detritus and  
formation of humus

**Answer: a**



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3. Productivity is the rate of production of biomass expressed in terms of:

(i)  $\left(\text{kcal m}^{-3}\right) \text{yr}^{-1}$

(ii)  $g^{-2} \text{yr}^{-1}$

(iii)  $g^{-1} \text{yr}^{-1}$

(iv)  $\left(\text{kcal m}^{-2}\right) \text{yr}^{-1}$

A. (ii)

B. (iii)

C. (ii) and (iv)

D. (i) and (iii)

**Answer: c**



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4. An inverted pyramid of biomass can be found in which ecosystem?

A. Forest

B. Marine

C. Grass land

D. Tundra

**Answer: b**



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**5. Which of the following is not a producer?**

A. Spirogyra

B. Agaricus

C. Volvox

D. Nostoc

**Answer: b**



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**6. Which of the following ecosystems is most productive in terms of net primary production?**

- A. Deserts
- B. Tropical rain forests
- C. Oceans
- D. Estuaries

**Answer: b**



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7. Pyramid of numbers is :

A. always upright

B. always inverted

C. either upright or inverted

D. neither upright nor inverted

**Answer: c**





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8. Approximately how much of the solar energy that falls on the leaves of a plant is converted to chemical energy by photosynthesis?

A. Less than 1%

B. 2 - 10%

C. 0.3

D. 0.5

**Answer: b**



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9. Among the following, where do you think the process of decomposition would be the fastest?

A. Tropical rain forest

B. Antarctic

C. Dry arid region

D. Alpine region

**Answer: a**



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**10.** How much of the net primary productivity of a terrestrial ecosystem is eaten and digested by herbivores?

A. 0.01

B. 0.1

C. 0.4

D. 0.9

**Answer: b**



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**11.** During the process of ecological succession, the changes that take place in communities are

A. orderly and sequential

B. random

C. very quick

D. not influenced by the physical environment

**Answer: a**



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**12. Climax community is in a state of**

A. non-equilibrium

B. equilibrium

C. disorder

D. constant change

**Answer: b**



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**13.** Among the following bio-geo-chemical cycles which one does not have losses due to respiration?

A. Phosphorus

B. Nitrogen

C. Sulphur

D. All of the above

**Answer: d**



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**14.** The sequence of communities of primary succession in water is:

A. phytoplankton, sedges, free-floating hydrophytes, rooted hydrophytes, grass-

es and trees

B. phytoplankton, free-floating  
hydrophytes, rooted hydrophytes,  
sedges, grasses and trees

C. free-floating hydrophytes, sedges, phy-  
toplankton, rooted hydrophytes, grass-  
es and trees

D. phytoplankton, rooted submerged hy-  
drophytes, floating hydrophytes, reed  
swamp, sedges, meadow and trees.



**Answer: d**



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**15.** The reservoir for the gaseous type of bio-geo chemical cycle exists in:

A. stratosphere

B. atmosphere

C. ionosphere

D. lithosphere

**Answer: b**



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**16.** If the carbon atoms fixed by producers already have passed through three species, the trophic level of the last species would be:

- A. scavenger
- B. tertiary producer
- C. tertiary consumer
- D. secondary consumer

**Answer: c**



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**17.** Which of the following type of ecosystem is expected in an area where evaporation exceeds precipitation, and mean annual rainfall is below 100mm ?

- A. Grassland
- B. Shrubby forest
- C. Desert

D. Mangrove

**Answer: c**



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**18.** The zone at the edge of a lake or ocean which is alternatively exposed to air and immersed in water is called.

A. pelagic zone

B. benthic zone

C. lentic zone

D. littoral zone

**Answer: d**



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**19.** Edaphic factor refers to

A. water

B. soil

C. relative humidity

D. altitude

**Answer: b**



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**20.** Which of the following is an ecosystem service provided by a natural ecosystem?

A. Cycling of nutrients

B. Prevention of soil erosion

C. Pollutant absorption and reduction of  
the threat of global warming

D. All of the above

**Answer: d**



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