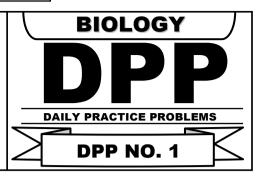


TARGET: NEET (UG) 2024

Course: SARANSH (Youtube Live CRASH COURSE)



BOTANY: ECOSYSTEM

DPP No.: 1

1. If 20 J of energy is trapped at producer level, then how much energy will be available to peacock as food in the following chain?

plant \rightarrow mice \rightarrow snake \rightarrow peacock

(1) 0.02 J

(2) 0.002 J

(3) 0.2 J

(4) 0.0002 J

2. Vertical distribution of different species occupying different levels in a biotic community is known as:

(1) Stratification

(2) Zonation

(3) Pyramid

(4) Divergence

3. The mass of living material at a trophic level at a particular time is called:

(1) Standing state

(2) Net primary productivity

(3) Standing crop

(4) Gross primary productivity

4. What type of ecological pyramid would be obtained with the following data?

Secondary consumer : 120 g Primary consumer : 60 g Primary producer : 10 g

(1) Inverted pyramid of biomass

(2) Upright pyramid of biomass

(3) Upright pyramid of numbers

(4) Pyramid of energy

- 5. Which of the following statement is **incorrect**
 - (1) Biomass decreases form first to fourth trophic level
 - (2) Energy content gradually increases from first to fourth trophic level
 - (3) Number of individuals decreases from first trophic level to fourth trophic level
 - (4) Energy content gradually decreases from first to fourth trophic level
- **6.** In the equation GPP R = NPP R represents:

(1) Retardation factor

(2) Environment factor

(3) Respiration losses

(4) Radiant energy



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7. Given below are two statements:

Statement I: Decomposition is a process in which the detritus is degraded into simpler substances by microbes

Statement II: Decomposition is faster if the detritus is rich in lignin and chitin

In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is correct but Statement II is incorrect
- (2) Statement I is incorrect but Statement II is correct
- (3) Both Statement I and Statement II are correct
- (4) Both Statement I and Statement II are incorrect
- **8.** Given below are two statements:

Statement-I: Pyramid of energy is always uprightand is the most efficient.

Statement-II: Pyramid of biomass in sea is generally inverted. In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Statement-I is incorrect but Statement-II is correct
- (2) Both Statement-I and Statement-II are correct
- (3) Both Statement-I and Statement-II are incorrect
- (4) Statement-I is correct but Statement-II is incorrect
- **9.** Identify the **correct** statements :
 - A. Detrivores perform fragmentation.
 - B. The humus is further degraded by some microbes during mineralization.
 - C. Water soluble inorganic nutrients go down into the soil and get precipitated by a process called leaching.
 - D. The detritus food chain begins with living organisms.
 - E. Earthworms break down detritus into smaller particles by a process called catabolism.

Choose the **correct** answer from the options given below:

(1) B, C, D only (2) C, D, E only (3) D, E, A only (4) A,B,C only

10. Highest value in g/m²/yr of a grassland ecosystem would be

(1) Gross primary production (2) Net primary production

(3) Secondary production (4) Tertiary production