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**Max Time : 1 hr** **Class = 12th Biology Test**  **Max Marks : 25**

**ECOSYSTEM**

1. Multiple choice questions : [ 1 X 5 = 5]
2. Mass of living matter at a tropical level in an area at any time is called as:

|  |  |  |  |
| --- | --- | --- | --- |
| a) Standing crop | b) detritus | c) Humus | d) Standing state |

1. The upright pyramid of number is absent in:

|  |  |  |  |
| --- | --- | --- | --- |
| a) Pond | b) Lake | c) Both (a) and (b) | d) Grassland |

1. The rate of formation of new organic matter by rabbit in grassland, is called:

|  |  |
| --- | --- |
| a) Net productivity | b) Secondary productivity |
| c) Net primary productivity | d) Gross primary productivity |

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

(i) (kcal m – 3 ) yr – 1  (ii) g m – 3 yr – 1  (iii) g – 1 yr – 1  (iv) (kcal m – 2 ) yr – 1

|  |  |  |  |
| --- | --- | --- | --- |
| a) (ii) | b) (iii) | c) (ii) and (iv) | d) (i) and (iii) |

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

|  |  |  |  |
| --- | --- | --- | --- |
| a) Forest | b) Marine | c) Grassland | d) Tundra |

1. Why is a food web formed in nature? [ 1 ]
2. Name an omnivore which occurs in both grazing food chain and the decomposers food chain.

[ 1 ]

1. How is stratification represented in a forest ecosystem? [ 1 ]
2. Define Primary Productivity. [ 1 ]
3. Define Mineralization. [ 1 ]
4. Why is the length of a food chain in an ecosystem generally limited to a 3-4 trophic levels? Explain with example. [ 2 ]
5. What are the limitations of ecological pyramids? [ 2 ]
6. What could be the reason for the faster rate of decomposition in the tropics? [ 2 ]
7. Define ecological pyramids and describe with examples, pyramids of number and biomass.

[ 3 ]

1. Define decomposition and describe the process and products of decomposition. [ 3 ]
2. Differentiate (a) GPP and NPP (b) Primary and secondary productivity [ 3 ]