

## Summative Assessment – Term I 2025-26

### Class 8 BIOLOGY - Answer Key

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1. c) i, iv

2. c). i, iv correct.

(2x1= 2)

3. a). Internet of Things (IoT)

b). Plants are grown in nutrient solutions and, with the help of sensors, the amount of nutrients is detected and provided.

4. a). Sydney Fox synthesized molecules similar to protein (protenoids)

b). Joan Oro synthesized the nitrogen base, adenine.

5. a). Wick irrigation.

b). Water reaches to the roots. Less amount of water is required.

6. a). (i) – Macronutrients. These are required in large quantity.

b). (ii), (iii) - Barium, boron, zinc, copper, manganese, iron, molybdenum, chlorine, nickel (any 2)

7. A.(a). Formation of complex biomolecules

(b). Complex nucleic acid and lipid sheath around it forms.

**OR**

B. (a). Engulfing an aerobic bacterium.

(b). Instead of digesting photosynthetic bacterium, it gets protection and gradually transformed into a chloroplast.

8. A. a). possibility of incorporating hydroponics and aeroponics.

b). Crops are grown vertically stacked layer by layers.

B. a). Easily absorbable, Required in small quantity.

b). Yes, Since these are chemicals, excessive application is harmful to soil texture and the decomposers.

(6x2= 12)

9. a). Theory of Chemical evolution.

b). X= Electric spark, Y= Amino acids.

c).Sunlight, UV rays, lightning, volcanic eruption as energy sources.

10. A.a).GM crops are developed by altering its genetic constitution through genetic engineering.

b). Local varieties are nutritious, Well suited to the local environment, Natural resistance to pests and diseases, Require minimal fertilizer and pesticides (any 2)

**OR**

B.a). Nets and traps, Using friendly pests, Using pesticides, Use of resistant varieties of seeds (any 2)

b). Integrated Pest management.

(2x3= 6)