
Biology

25th November 2019

Q1	4
Q2	3
Q3	2
Q4	2
Q5	2
Total Marks	13

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1. Give the scientific name of the source organism from which the first antibiotic was produced. [4 Marks]
Solution: *Penicillium notatum*.

2. The prophase I stage of meiosis plays a vital role in r-DNA formation. Justify with reason. [3 Marks]
Solution: The prophase I stage of meiosis plays vital role in r-DNA formation because crossing over occurs at this stage which helps in recombination.

3. Write one advantage and one disadvantage of cleistogamy to flowering plants. [2 Marks]
Solution:

4. Name one amino acid, which is coded by only one codon. [2 Marks]
Solution:

5. Check Render [2 Marks]
Solution: When $a \neq 0$, there are two solutions to $ax^2 + bx + c = 0$ and they are great

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}.$$