

**(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2023 ONLY)**

23UBY4N22

REG.NO. :

B.Sc.-BOTANY SEMESTER: IV

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY-2025**

**MAXIMUM MARKS: 50
TIME : 2 HOURS**

PART - IV

BIOINFORMATICS

SECTION - A

ANSWER THE FOLLOWING QUESTIONS.

(10 X 1 = 10 MARKS)
(K1)

1. Adenine and guanine are _____.
a) pyrimidines b) purines c) aminoacids d) sugars
2. Protein coding sequences of a DNA are called _____.
a) proteome b) genome c) exons d) introns
3. Multiple sequence alignment tool is _____.
a) CLUSTAL X b) BLAST c) RASMOL d) GENMARK
4. RASMOL predicts the _____ of protein.
a) molecular weight b) atomic number c) tertiary structure d) All the above
5. Biomolecules are _____ compounds.
a) inorganic b) organic c) aromatic d) aliphatic

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. What is DNA?
7. What are specialized databases?
8. Expand BLAST.
9. Define proteomics.
10. What is homology?

SECTION – B (5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.