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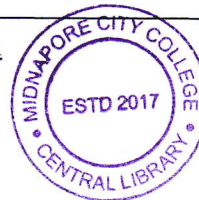
**PG (CBCS)**  
**M.Sc. Semester-I Examination, 2022**  
**MLT**  
**PAPER: MLT 103**  
**(CLINICAL BIOCHEMISTRY)**

Full Marks: 40

Time: 2 Hours

**GROUP-A**Answer any **FOUR** questions:

1. What is protein folding?
2. Define nucleotide with example.
3. What is myoglobin?
4. Write down any two source of vitamin C.
5. Mention two differences between homo and heteropolysaccharide.
6. Write down any two applications of radioisotope.
7. What is hyperchromic shift?
8. What is ganglioside?



4X2=8

**GROUP-B**Answer any **FOUR** questions:

9. Discuss the factors affecting enzyme action.
10. Deduce Michelis-Menten equation.
11. Classify protein with examples.
12. Write a short note on Pernicious anemia.
13. What is Codon bias? Give two examples of nonsense codon. 2+2
14. Describe the oxygen-hemoglobin dissociation curve.
15. Write down the functions of prostaglandin.
16. Mention the physiological importance of pentoses.

4×4 = 16

**GROUP-C**Answer any **TWO** questions:

17. What is Z DNA? Describe the Watson-Crick Model of DNA double helix. 2+4
18. What is activator? Write the competitive and non-competitive inhibition of enzyme. Give example. 2+4+2
19. Write down the RDA, sources and functions of vitamin B12.
20. Classify amino acids according to polarity. Write down the functions of collagen. 4+4

2×8 = 16