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(FOR THE CANDIDATES ADMITTED

SUB CODE

DURING THE ACADEMIC YEAR 2021 ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY 2024

B.Sc CHEMISTRY

MAXIMUM MARKS: 70

SEMESTER : VI

TIME : 3 HOURS

**PART - III**

**ORGANIC CHEMISTRY-II**

**SECTION- A**

**(10x1=10MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.(K1)**

1. Polynuclear aromatic hydrocarbons are \_\_\_\_\_  
a) Acidic            b) Basic    c) Neutral            d) None of these
2. Amino acids are building blocks of \_\_\_\_\_  
a) Carbohydrates b) DNA    c) Lipidsd    d) Proteins
3. The basic repeating units of a DNA molecule is \_\_\_\_\_  
a) Nucleoside b) Nucleotide    c) Histones    d) Amino acids
4. Water soluble vitamin is  
a) Vitamin A    b) Vitamin D    c) Vitamin E    d) Vitamin B
5. Anaesthetic agents used by dentist are  
a) Local            b) Epidural    c) General            d) None of these

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

**(K2)**

6. What are polynuclear hydrocarbons?
7. What are amino acids?
8. Write a note on nucleic acids
9. What are vitamins?
10. Write short notes on chemotherapy

**SECTION- B**

**(5x4=20MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K3)**

11. a) Write a note on condensed systems **(OR)**

b) Give an account of preparation ,properties of anthracene

12. a) Write a note on N-terminal end by Sangers method **(OR)**

b) Explain Gabriel phthalimide synthesis

13. a) Write a note on functions of nucleotides **(OR)**

b) Give an account on classification of oils and fats

14. a) How will you classify vitamins?

**(OR)**

b) Write a note on importance of vitamins

15. a) Write note on antimalarials

**(OR)**

b) Explain structure and uses of penicillin

**SECTION- C (4x10=40MARKS)**

**ANSWER ANY FOUR OUT OF SIX QUESTIONS (16<sup>th</sup> QUESTION IS  
COMPULSORY AND ANSWER ANY THREE QUESTIONS)**

**(K4/ K5)**

16. Write note on structural elucidation of naphthalene

17. Write note on preparation ,properties of phenanthrene

18. Give an account on primary, secondary and tertiary structures of proteins

19. Explain structure and functions of RNA

20. Write a note of constitution and synthesis of Vitamin A1

21. Explain the following

(i) Classification of drugs

(ii) Characteristics of anaesthetics (5+5)