

(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2019 ONLY)

19 UCY 612

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : JULY 2022

B.Sc.-CHEMISTRY

MAXIMUM MARKS: 75

VI SEMESTER

TIME : 3 HOURS

PART – III

ORGANIC CHEMISTRY - II

SECTION - A

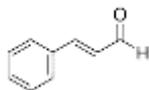
(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. Name the structure of the below compound\_\_\_\_\_.



- a) Oxaldehyde                      b) Cinnamaldehyde                      c) Malonaldehyde                      d) Glutaraldehyde

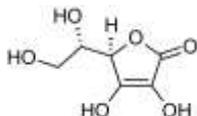
2. Which one among the following is an Achiral amino acid\_\_\_\_\_.

- a) Glycine                      b) Alanine                      c) Histidine                      d) Leucine

3. Expand the term DNA\_\_\_\_\_.

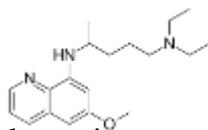
- a) Deoxyribonucleic acid                      b) Dioxyribonucleic acid  
c) Deribonucleic acid                      d) Dinucleic acid

4. Identify the name of the below structure\_\_\_\_\_.



- a) Vitamin A1(retinol)                      b) Vitamin B1  
c) Pyridoxine                      d) Ascorbic acid

5. Write the name of the below structure\_\_\_\_\_.



- a) Chloroquine                      b) Pamaquine  
c) Hydroxyquine                      d) Metaquine

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Why is ethanol (CH<sub>3</sub>CH<sub>2</sub>OH) more soluble in water than 1-hexanol (CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH)?

7. Define Denaturation.

8. Pen down the nitrogen bases present in nucleic acids.

9. List some of the deficiency diseases of Vitamins.

10. Write any two differences between antibiotics and antiseptics.

(CONTD...2)

**SECTION – B****(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Explain the preparation, properties and uses of Anthracene.  
(OR)  
b) Discuss the preparation, properties and uses of Phenanthrene.
12. a) Explain the classification Amino Acids.  
(OR)  
b) Discuss the primary and secondary structure of Proteins.
13. a) Discriminate Nucleosides from Nucleotides with examples.  
(OR)  
b) Illustrate the Bloor method classification of Lipids.
14. a) Define Vitamin. How are they classified?  
(OR)  
b) Explain the synthesis of Vitamin A<sub>1</sub>.
15. a) Write the classification of Drugs with example.  
(OR)  
b) Discuss the structure and uses of chloramine-T and Iodoform.

**SECTION - C****(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS****(16<sup>th</sup> QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS****(FROM Qn. No : 17 to 21)****(K4 (Or) K5)**

16. Illustrate the structure, mode of action and uses of sulphadruugs.
17. Prepare a detailed report on the structural elucidation of Naphthalene and Anthracene.
18. Discuss the Gabriel's phthalimide synthesis and Strecker synthesis.
19. Summarize the properties and analysis of fats and oils.
20. Discuss the synthesis of Pyridoxine and Ascorbic acid.
21. Illustrate the role of Anaesthetics in human health and write note on Procaine and Pentothal sodium structure and its uses.

