

(FOR THE CANDIDATES ADMITTED

22UCY612

DURING THE ACADEMIC YEAR 20

ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : MAY-2025

B.Sc CHEMISTRY

MAXIMUM MARKS: 50

SEMESTER:VI

TIME : 3 HOURS

PART - III

ORGANIC CHEMISTRY - II

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.(K1)

1. Naphthalene is

- a)bicyclic b)tricyclic c)monocyclic d)acyclic

2. The simplest amino acid is

- (a) Glycine (b) Alanine (c) Asparagine (d) Tyrosine

3. Nucleoside contains

- (a) base-sugar (b) base-phosphate (c) base-sugar-phosphate (d) sugar-phosphate

4. Vitamin A is

- a) Retinol b)thiamine c)Niacin d)Ascorbic acid

5.Chloroquine is a

- a)Antibacterial b)antiviral c)antimalarial d)anticancer

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Give the reaction of phenol with ferric chloride.

7. Define denaturation of protein.

8. What is iodine value?

9. What are water soluble vitamins?

10. What is chemotherapy?

SECTION – B

(5 X 3 = 15 MARKS)

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

11. a) Give the preparation of naphthalene.

(OR)

b) How will you find structure of phenol using reactions?

12. a)Explain the Gabriel's phthalimide and Strecker synthesis method.

(OR)

b) Analyse the N- Terminal end residual Analysis by Sanger's method.

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13. a) Write a note on nucleosides and nucleotides.

(OR)

b) Discuss the saponification value in detail.

14. a) Explain the source and deficiency disease of vitamin C.

(OR)

b) Write a note on the importance of vitamins.

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15. a). Discuss the structure and uses of tetracycline

(OR)

- b) What are antimalarial drugs? Classify them.

SECTION – C

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4/K5)

16. a) Elucidate the structure of anthracene.

(OR)

- b) Deduce the structure of aldehyde using reactions.

17. a) Discuss the synthesis of polypeptides by carbobenzoxy method (Bergmann method).

(OR)

- b) Sketch and discuss the secondary and tertiary structures of proteins.

18. a) Describe the Structure, replication and functions of DNA

(OR)

- b) Classify and explain Lipids with suitable examples.

19. a) Write a note on the fat soluble vitamins their sources and deficiency diseases

(OR)

- b) Elucidate the constituents and synthesis of Vitamin A

20. a) Explain the mode of action of sulphur drugs

(OR)

- b) Classify drugs and give examples

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