

Sessional Examination, 2022

B.Sc. 5th Semester (H)

C- 501 (Organic Chemistry)

Time: 1.30 h

Marks: 40

1. Short note (any five) 5×3=15

- (a) Coenzyme and Cofactor (b) Active site of an enzyme (c) Characteristics of enzyme
(d) Competitive Inhibition (e) Non- Competitive Inhibition (f) Six major classes of enzyme.
(g) Enzymatic action of Chymotrypsin.

2. Answer any five of the following questions. 5×3=15

- (a) Write down the synthesis process of paracetamol.
(b) Define antipyretic, analgesic and antimalarial drugs with example.
(c) Short note on providone- Iodine solution.
(d) Write down the medicinal value of vitamin c and azadirachtin.
(e) Short note on chloramphenicol.
(f) Describe about different types of sulphadrug.
(g) Describe about six major classes of enzyme.

3. How will you prepare the following (any two) 2×2= 4

- (a) Alanine from Gabriel phthalimide synthesis
(b) Valine from active methylene compound
(c) Cysteine
(d) Glycylalanine (dipeptide)

4. How will you determine primary structure of peptide by end group analysis using Edman method or DNP- method? 3

5. How a mixture of amino acids is separated? Explain any one method for the separation of amino acids. 3