

Hemchandracharya North Gujarat University, Patan  
Bachelor of Vocation

'Pharmaceutical Chemistry' Semester - II  
END TERM Examination, April, 2019

Subject: Fundamental Biochemistry (PC-213)

Time: 2 hrs

Date: 27/04/2019

Maximum marks: 50

**Q.1 Answer any 9 questions. Each question carries 1 mark (9\*1=9Marks)**

1. Give a general structure of amino acid ?
2. Give definition of iso electrical point ?
3. For 'n' number of amino acid, number of peptide bond will be \_\_\_\_\_ ?
4. Give location and example of fibrous proteins ?
5. Define enzyme ?
6. What kind of enzyme can catalyse reaction in absence of protein ?
7. Only vitamin \_\_\_\_\_ of the fat soluble vitamin is converted to a co factor.
8. Give content and example of glycerophospholipid?
9. What is jojoba wax?
10. What is heteropolysaccharide?
11. Protein centre present in potato called as \_\_\_\_\_.

**Q. 2 Answer any 5 questions. Each question carries 4 marks (5\*4=20 Marks)**

1. Short note on different structure of protein.
2. Give a brief note on structure of enzyme.
3. Short note on inhibition mechanism of enzyme.
4. Give brief note on compound lipid.
5. Short note on storage polysaccharide.
6. Draw structure of following compound
  - A)  $\alpha$ -Glucose &  $\beta$ -Glucose.
  - B) Ribose.
  - C) Triglyceride.

**Q.3 Answer any 3 questions. The question carries 07 marks (3\*7=21 Marks)**

1. Explain role of protein in detail.
2. Give brief explanation on types of enzyme.
3. Explain in detail about lock and key model.
4. Explain in detail about fatty acid.