

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot
Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION NOVEMBER – 2017

B.Voc. Pharmaceutical Analysis & Quality Assurance

BVPAQA-303 – PHARMACEUTICAL ORGANIC CHEMISTRY - I

Duration of Exam – 2:30 hrs

Semester – III

Max. Marks – 70

Que. 1 (A) – Answer the following Questions

[10]

1. What are Enzymes?
2. _____ is also known as Suicidal Organ.
3. Give full form of IUB.
4. What is Cytoskeleton?
5. Define Lipids.
6. Which amino acid does not contain Chiral carbon?
7. Give any two Examples of Homopolysaccharides.
8. What are the meanings of Apoenzyme & Coenzyme in Holoenzymes?
9. Write any two units of Enzyme activity.
10. Give function of Iron as a Mineral.

Que. 1 (B) – Answer the following Questions

[20]

1. Define Active Site of the enzyme. Give any two Features of the active site.
2. What are Fat solvents? Give any two examples of the same.
3. Draw a labeled diagram of Animal cell.
4. Give reaction & mechanism of Acrolein test.
5. Comment: Sucrose does not give Osazone test positive.
6. Define Macro Minerals & Micro Minerals with one mineral example of each.
7. Explain Biuret Test for Protein with suitable reaction.
8. Define Isoelectric pH & Zwitter ion.
9. Enlist the bonds responsible for Protein structure.
10. Describe Fisher template theory.

Que. 2 – Answer the following Questions (Any Four)

[20]

1. Give a detailed account on different Physical properties of Lipid.
2. Define Enzyme inhibition. Write a note on reversible enzyme inhibition.
3. Give a brief account on secondary structure of Protein.
4. Discuss any 5 Purity identification tests for lipids with their definition, use & examples.
5. Write a note on Calcium as a mineral.
6. Define Carbohydrates. Classify carbohydrates with suitable examples. Briefly explain Haworth Projections.

Que. 3 – Answer the following Questions (Any Four)

[20]

1. Explain in detailed any 5 reactions of Monosaccharides.
 2. Discuss power house of the cell.
 3. Write a note on Phospholipids with their appropriate structures.
 4. Discuss factors affecting Enzyme activity.
 5. Give a detailed account on Nucleus with suitable diagram.
 6. Briefly classify Protein based on composition & solubility of proteins.
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