

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-302 FUNDAMENTAL BIOCHEMISTRY

Duration of Exam – 2:30 hrs

Semester – III

Max. Marks – 70

Que. 1 (A) – Answer the following Questions

[10]

1. What is Protein?
2. Name aromatic ring containing amino acids.
3. Isoelectric pH for casein is what?
4. Enlist two examples of non-reducing disaccharides.
5. Enlist two example of non-proteinous enzymes.
6. What is allosteric site of Enzyme?
7. Name the fruit sugar.
8. Enlist different lipo-protein.
9. Suggest general chemical test to detect presence of Carbohydrate.
10. Explain: Albumin is precipitated out with full saturated solution only.

Que. 1 (B) – Answer the following Questions

[20]

1. Explain primary structure of protein.
2. Discuss structural classification of proteins.
3. Make a note on lysosome.
4. Explain role of K & Na in human.
5. What is phospholipid? Explain its role in human body.
6. How to distinguish polysaccharides with chemical test?
7. Describe structure of Glucose.
8. Enlist three examples of Hexose and Pentose each.
9. Discuss role of determination of SGOT & SGPT
10. Enumerate functions of lipid in human body.

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

[20]

1. Draw labelled diagram of cell.
2. Explain color test used for protein for identification.
3. Discuss various theories of Enzymes activity.
4. Make a note on enzyme catalysis.
5. Describe several biological peptides in detail.
6. What are micro-elements? Enlist them and explain role of any three elements in detail.

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

[20]

1. Discuss apoptosis in detail.
 2. Classify amino acids with enough detail.
 3. Explain principle of Benedicts test used to differentiate reducing sugar from non-reducing sugar.
 4. Enlist and explain factors affecting enzyme activity.
 5. Describe Krebs cycle.
 6. Discuss Cori cycle.
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