

(2)

Q.6 What are enzymes ,properties of enzymes ,naming and classification of enzymes.,factors influencing enzyme action , give therapeutic and pharmaceutical importance of enzymes.

Q.7 Describe TCA cycle and SHUNT in detail.

Q.8 Write short notes (Any 4) -

- (a) Erythrocytes
- (b) Normal constituents of urine.
- (c) Glycolysis
- (d) Lipids
- (e) Bile pigments

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[Total No. of Questions: 8 ]

[Total No. of Printed Pages : 2]

Enroll. No.....

**DP-104**

**D. Pharmacy I<sup>st</sup> Year**

**Examination –April- 2021**

**Biochemistry and Clinical Pathology**

**Time: Three Hours**

**Maximum Marks: 80**

**Note:-** Attempt any five questions.(Each question carries equal marks)

Q.1 Write introduction of biochemistry. Discuss classification, qualitative tests, biological value and diseases caused by deficiency of proteins.

Q.2 Explain role of Carbohydrates .Write classification, qualitative tests, diseases related to Carbohydrate metabolism.

Q.3 Write role of Lipids. Discuss classification, qualitative tests and diseases related to lipids metabolism?

Q.4 Discuss Vitamins and Coenzymes , classify them. Describe fat soluble vitamins with reference to their chemistry ,source ,physiological action and deficiency diseases.

Q.5 Describe Water metabolism. Describe macro minerals (Any Four) ,with special reference to their sources, physiological functions ,deficiency and requirement.