FIRST YEAR (NEW) PHARMACY BIOCHEMISTRY AND CLINICAL PATHOLOGY (104)

Time: Three Hours Maximum Marks: 80

- Note: i) Attempt total six questions. Question No.1 is compulsory from the remaining questions attempt any five.
 - ii) Answer each next main question from a new page.
 - iii) Draw diagram/ sketch where necessary.
- 1. a) Fill in the blanks.
 - i) Vitamin C is also known as

 - iii) Benedict test is used in the identification of
 - iv) Protein is the polypeptide of
 - v) Phenylalanine is _____ amino acid.

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b) Match the column 'A' against column 'B'. 5
Column 'A' Column 'B'

i) Pectin

1) Disaccharide

ii) Lactase

2) Normal constituent of urine

iii) Urca

- 3) Abnormal constituent $^{\sim}$ of urine
- iv) Creatine
- 4) Reducing sugar
- v) Tollen Reagent
- 5) Polysaccharide

2.1 Attempt any two.

$$7 \times 2 = 14$$

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- a) Give qualitative test for identification of Lipids (any two). http://www.rgpvonline.com
- b) Discuss the structure of protein with example.
- c) Describe disease related to abnormal carbohydrate metabolism.
- 3. Explain the following terms. (any four) 14
 - a) Beri-Beri
 - b) Platelets
 - c) Co-enzyme
 - d) Lymphocytes
 - e) Enantiomers

Contd.....

4. Attempt any two.

$$7 \times 2 = 14$$

- a) Describe qualitative test for detection of reducing sugars (any two).
- b) Write source, function and deficiency disease of Vitamin D.
 - c) Discuss various factors affecting enzymatic action.

5. Attempt any two.

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- a) Briefly classify enzymes.
- b) Discuss the importance of calcium and fluorine in relation to human body.
- c) Enlist the abnormal constituent of urine. Discuss pathological importance of any two of them.
- 6. Write notes on any two.

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- a) Glycolysis ---
- b) Citric Acid Cycle
- c) Urea Cycle

7. Attempt any two.

$$7 \times 2 = 14$$

- a) Classify lipids with examples.
- b) Give the mechanism of enzymatic action.
- c) Give chemical structure of:
 - i) Two essential amino acid
 - ii) Two non-essential amino acid

8.1 Write notes on any two.

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- a) Function of Proteins
- b) Blood clotting
- c) Water Metabolism

