

**B.OPTOM**  
(New Syllabus 2018-2019)

**FIRST YEAR**

**PAPER IV – BASIC BIOCHEMISTRY & NUTRITION**

*Q.P. Code: 802734*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define vitamins. Give a detailed account on classification, sources, functions and deficiency disorders of vitamins.
2. Explain glycolysis.
3. Write in detail about protein energy malnutrition.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Biological importance of carbohydrates.
2. Tears – fluid, chemistry and functions.
3. Factors affecting enzyme action.
4. Diabetes mellitus.
5. Basic five food groups.
6. Essential fatty acids.
7. Functions of calcium.
8. Anti oxidants.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Properties of amino acids.
2. Selenium.
3. Electrophoresis.
4. Steroids.
5. Goitre.
6. Buffers.
7. Balanced diet.
8. Dietary fiber.
9. WHO definition of health?
10. Obesity.

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