

**B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY**

**FIRST YEAR**

**PAPER II – BIOCHEMISTRY AND PATHOLOGY**

*Q.P. Code: 801402*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classification, sources and functions of Vitamins.
2. Detailed note on lipids and its classification.
3. Write a detailed note on general principles of microbial pathogenesis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Mediators of inflammation.
2. Differentiate between active and passive immunity.
3. Sarcoidosis.
4. HMP shunt.
5. Apoptosis and necrosis.
6. Diabetes mellitus.
7. Enzyme and its classification.
8. Principle behind Benedicts test and heat coagulation test.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Buffers.
2. Marasums.
3. Respiratory quotient.
4. Trace elements
5. Molality and molarity.
6. Functions of plasma cell.
7. Hypokalemia.
8. Necrosis.
9. Basal metabolic rate.
10. What is Hyperplasia? Mention one example.

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