## 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:  $(3 \times 10 = 30)$ 

1. Explain in detail about the sources, requirements, functions and deficiency states of fat soluble Vitamins.

- 2. Define inflammation. Enumerate the signs of inflammation. Explain the sequential vascular and cellular events of acute inflammation.
- 3. Define respiratory acidosis. Explain the investigation related to the biochemical changes that take place in this condition.

II. Write notes on:  $(8 \times 5 = 40)$ 

- 1. Marasmus.
- 2. Morphological features of rheumatic heart disease.
- 3. Dengue fever.
- 4. Reversible cell injury.
- 5. Mechanisms of autoimmunity.
- 6. Coagulation cascade.
- 7. Glycogenolysis.
- 8. Factors affecting enzyme activity.

## III. Short answers on:

 $(10 \times 3 = 30)$ 

- 1. Define metaplasia.
- 2. Write any three fungal infections with causes.
- 3. Types of necrosis.
- 4. Deficiency state of Vitamin  $B_{12}$ .
- 5. List any four opportunistic infections in Acquaired immuno deficiency syndrome.
- 6. What are ketone bodies? Give examples.
- 7. Define normality.
- 8. What is acidosis?
- 9. What are co-enzymes? Give two examples of co-enzymes.
- 10. Origin and function of plasma cells.