Instructions:

(1) Fill in strictly the details of the signature on your answer book.

(2) Figures on right indicate full marks.

(3) Draw labelled diagram where necessary.

1. Answer the following briefly:

   (1) What is ICF and ECF.

   (2) Differentiate the physiological types of jaundice.

   (3) What is the role of Brain natriuretic peptide as a cardiac marker.

   (4) Enlist the electrolytes and its composition in ECF and ICF.

2. Attempt any two of the following:

   (1) Enlist the gastric function tests. Explain in detail Fractional gastric analysis.

   (2) Explain in detail the liver function tests based on detoxification function of liver.

   (3) Discuss in detail Respiratory acidosis.
3 Attempt any **one** of the following:

(1) Enlist the various thyroid hormones. Explain in detail the tests based on metabolic effects of thyroid hormones and the tests for measurement of thyroid hormones.

(2) Explain in detail the clinical significance of cardiac enzymes and cardiac markers.

4 Write notes on: (any **two**)

(1) Respiratory acidosis Vs Respiratory alkalosis.

(2) Tests to measure Renal plasma flow.

(3) Intestinal function test for disaccharide deficiency.