

BIOCHEMISTRY

I. Major experiment - 25 marks

Mark Splitup:

- 1. Provisional Diagnosis, Relevant Investigation with reference ranges - 5 marks**
- 2. Procedure - 5 marks**
- 3. Values - 5 marks**
- 4. Discussion -10 marks**

II. Minor experiment - 25 marks

Identification of 2 Abnormal constituents

-2X12.5 marks =25 marks

Minor Experiment	Spilt up	Total
Abnormal Constituent I	Identification- 2.5 marks Procedure -5 marks Discussion -5 marks	12.5marks
Abnormal Constituent II	Identification- 2.5 marks Procedure -5 marks Discussion -5 marks	12.5marks

Total -25 marks

III. Charts / Suggest investigation - 15 marks

(3 charts x 5 marks)

IV. OSPE (3 stations) - 15 marks

(2 performance stations - 2 x 5 marks

1 Response station - 1 x 5 marks)

Major experiment involving quantitative estimation of common blood analytes.

Minor experiment : Qualitative - Identification of two abnormal constituents of urine only. Identification of physiologically important compound should not be tested as part of minor qualitative experiment.

Charts / Suggest investigation

(Laboratory values of biochemical parameters relevant to the case.

(eg. Diabetic history with GTT / Liver disorder with LFT etc.)

VIVA – 20 marks

Suggested Division of topics among 4 examiners

I. Carbohydrates – Chemistry & metabolism, Cell, Biological Oxidation, Oxidative phosphorylation, TCA cycle

II. Proteins – Chemistry & metabolism, Enzymes, Plasma , Function tests, Xenobiotics, Tumor markers, Oncogenes, Hormones, Hemostasis and Immunity.

III. Lipids – Chemistry & metabolism, Vitamins, Nutrition, Porphyrins, Hemoglobin, Jaundice,

IV. Nucleic acid chemistry & metabolism, Molecular Biology, Water, Electrolytes and Acid- Balance