



Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer all questions

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. List the chronic granulomatous diseases. Describe the pathology of sarcoidosis and write briefly on it's laboratory investigations
2. Discuss calcium homeostasis in body and describe the disorders arising from it's disruption

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. ELISA versus NAT (Nucleic Acid Testing) of transfusion transmissible diseases
4. Hs CRP (High sensitive C Reactive Protein)
5. Iron chelating therapy for transfusion iron overload
6. Gene therapy
7. Lactic acidosis
8. Quinolones – mechanism of action, uses, contraindications and side effects

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