

Instructions: (a) Figures to the right indicate total marks of respective questions.  
(b) Draw neat, clean and labeled diagram wherever necessary.

1 Explain detailed anatomy and physiology of digestive system. 14

OR

1 Explain anatomy emphasizing preview of disease: Nervous system. 14

2 Explain various examinations of faeces. 14

OR

2 Write short notes on: (i) India ink preparation (ii) Methods of urine sample collection. 14

3 Explain screening of AFB, its staining and its post analytical precautions. 14

OR

3 Write in detail: Synovial fluid examination. 14

4 Explain mechanisms and uses of various fixatives. 14

OR

4 Write short notes on: (i) Microtomy (ii) HE staining. 14

5 Explain in detail: Techniques of cytogenetics. 14

OR

5 Write short notes on: (i) Decalcification techniques (ii) Block preparation. 14