

I INTERNAL EXAMINATION

CLINICAL CARDIOLOGY

Section A (Long Essays)

(2 × 15 = 30 marks)

1. Describe the anatomy and physiology of the respiratory system, including the upper and lower respiratory tracts, muscles of respiration, mechanics of respiration, and neural/chemical regulation.
2. Explain the anatomy and physiology of the cardiovascular system, including chambers of the heart, coronary circulation, conductive system, cardiac cycle, ECG, heart sounds, blood pressure, pulse, and cardiac output.

Section B (Short Notes)

(10 × 5 = 50 marks)

1. Describe the bronchial tree and bronchopulmonary segments.
2. Explain the role of surfactant and intrapleural pressure in respiration.
3. Discuss chest wall movements and lung/chest wall compliance.
4. Write a note on V/Q relationship and airway resistance.
5. Explain lung volumes, capacities, and spirometry.
6. Describe pulmonary circulation and cough reflex.
7. Discuss semilunar and atrioventricular valves.
8. Explain the conductive system of the heart.
9. Write about heart sounds and their clinical significance.
10. Describe factors affecting cardiac output.

Section C (Very Short Answers)

(10 × 2 = 20 marks)

1. Define hilum of the lung.
2. Name the muscles of respiration.
3. What is intrapleural space?
4. Define respiratory centre.
5. Mention two lung function tests.
6. What are lung sounds?
7. Name the chambers of the heart.
8. Define ECG.
9. What is pulse?
10. Define blood pressure.