



Abhinav Bindra Sports Medicine and Research Institute

BPT 4TH Semester 1ST Internal Examination

Date: 11.07.2025

Subject: Physiotherapy in Cardio-Pulmonary Conditions

Time: 9:00AM- 12:00PM

F.M.: 80 marks

A. LONG QUESTIONS – Answer any 3 (3 X 15)

1. Define myocardial infarction. Describe its etiology and underlying pathophysiology. What are the clinical features and which investigations are required to confirm the diagnosis?
2. Describe the embryological development of the human heart?
3. Detail the embryological development of the human respiratory system?
4. Write a detailed description of the human cardiac cycle with a neat diagram?
5. Define acyanotic heart disease and discuss its etiology, pathophysiology, clinical features, diagnostic investigations?

B. SHORT QUESTIONS- Answer any 6 (6 X 5)

1. Septal defects of heart
2. Lung volumes & capacities
3. Angina pectoris
4. Heart sounds
5. Angioplasty
6. STEMI
7. Exchange of gases
8. PDA

C. OBJECTIVE TYPE QUESTION (1 x 5)

1. Which vein brings clean blood from the lungs into the heart?
 - a. Renal Vein
 - b. Pulmonary Vein
 - c. Vena Cava
 - d. Hepatic Vein
2. Inadequate pumping action of the heart is known as
 - a. Cardiogenic shock
 - b. Obstructive shock
 - c. Anaphylactic shock
 - d. Septic shock

3. Heart is devoid of
 - a. Cardiac muscle
 - b. Involuntary muscle
 - c. Voluntary muscle
 - d. Smooth muscle
 4. Oxygen, carbon dioxide, nutrients and wastes are exchanged through the thin walls of the:
 - a. Arteries
 - b. Capillaries
 - c. Veins
 - d. Venules
 5. Compared to an artery, the wall of a vein differs in which of the following way:
 - a. It consists of three coats called tunics
 - b. It is lined by a thin layer of endothelium
 - c. It contains smooth muscle
 - d. The middle tunic is thin
-