2024/11

B

 $1 \times 20 = 20$

SET

FIFTH SEMESTER CLINICAL CARDIO RESPIRATORY CONDITIONS

BPT-504

[USE OMR SHEET FOR OBJECTIVE PART] Full Marks: 70 Duration: 3 hrs.

BACHELOR OF PHYSIOTHERAPY

Objective

Time: 30 min. Marks: 20

Choose the correct answer from the following:

- 1. Which of these is a known cause of dilated cardiomyopathy?
 - b. Viral infections a. Genetic d. All of the above c. Alcohol
- 2. Poland syndrome is characterized by:
 - a. A defect in the sternum and
 - associated chest muscles Underdevelopment or absence of the
 - pectoralis major muscle
- b. A concave chest wall deformity
- d. Excessive growth of rib cartilage
- 3. Radiation therapy for left-sided breast cancer increases the risk of which cardiovascular complication?
 - a. Coronary artery disease
 - c. Aortic aneurysm

- b. Peripheral artery disease
- d. Pulmonary hypertension
- 4. Which of the following is a characteristic feature of hypertrophic cardiomyopathy?
 - Thickening of the heart muscle,
 - especially the left ventricle
 - c. Reduced ejection fraction
- b. Enlargement of all four chambers of the
- heart
- Accumulation of fibrous tissue in the
- heart muscle
- 5. Which of the following lifestyle changes is recommended to help lower blood pressure?
 - a. Reducing potassium intake
- b. Increasing salt intake
- e. Limiting physical activity
- d. Weight loss and regular exercise
- 6. What is the most common cause of myocardial infarction?
 - a. Viral infection

- b. High blood pressure
- c. Blood clot in the coronary artery
- d. Coronary artery spasm
- 7. What does the presence of an S4 sound often suggest?
 - a. Mitral regurgitation

- b. Atrial fibrillation
- c. Left ventricular hypertrophy
- d. Heart block
- 8. Which of the following best describes the function of surfactant in the lungs?
 - It reduces surface tension, preventing
- It filters particles from the air

alveolar collapse c. It traps pathogens

d. It increases oxygen concentration

1

USTM/COE/R-01

9.	ST-segment elevation is typically associated a. Non-ST-elevation MI (NSTEMI) c. Subendocardial MI	b.	ith which type of myocardial infarction ST-elevation MI (STEMI) Silent MI
10.	What does the V/Q ratio represent in the lu The ratio of blood flow to alveolar surface area The ratio of oxygen to carbon dioxide in the blood	b.	The ratio of ventilation to perfusion in the lungs The ratio of hemoglobin binding to
11.	Where is the cough center located in the cen a. Medulla oblongata c. Hypothalamus	b.	l nervous system? Cerebellum Cerebral cortex
12.	Which heart rhythm is most commonly asso a. Sinus tachycardia c. Ventricular fibrillation	b.	ted with cardiac arrest? Atrial fibrillation Sinus bradycardia
13.		b.	ion is: Sudden weight loss Chest pain radiating to the left arm
14.	What is the primary function of alveoli in the a. To filter dust and pathogens To exchange oxygen and carbon dioxide		espiratory system? To produce mucus To regulate the flow of air
15.	Which of the following signs indicates the no. a. Slow heart rate	b.	for CPR? Severe chest pain Unresponsiveness and no normal
	c. High blood pressure	d.	breathing
16.	Which class of drugs is commonly used as a a. Diuretics c. Antivirals	b.	st-line treatment for hypertension? Antihistamines Antibiotics
17.		b.	s used primarily to assess: Lung elasticity Gas exchange efficiency
18.	Which of the following is NOT a common sy a. Shortness of breath c. Leg swelling	mp b.	
19.	Which structures are not typically visible on a. Heart c. Esophagus	b.	standard chest X-ray? Lungs Diaphragm

- 20. In which lobe of the lung is the hilum located?a. Upper lobeb.

 - c. Middle lobe

- b. Lower lobe
 d. It is located in both lungs but not in a specific lobe

$\left(\underline{\text{Descriptive}} \right)$

Time: 2 hrs. 30 min. Marks: 50

[Answer question no.1 & any four (4) from the rest]

1.	What is ECG? Write down the types of leads used in ECG.Draw the basic diagram of ECG. Write down the ECG interpretations of myocardial infarction.	1+3+3+ 4=10
2.	Define cardiac arrest. Mention it in detail with management.	10
3.	Explain the mechanics of respiration in detail.	10
4.	Write about STEMI and NSTEMI and their management.	10
5.	A 65-year-old male presents to the clinic with a 20-year history of smoking (1 pack per day). He complains of persistent cough with sputum production, worsening shortness of breath on exertion, and fatigue. Write down thename of the diagnosed condition. Write down the definition, etiology, diagnostic tests, and treatment of the condition.	10
6.	Write in detail about infective endocarditis.	10
7.	Explain pulmonary and coronary circulation in detail. Write down the anatomical points of heart sounds and lung sounds.	10
8.	What is pleural effusion? Write the clinical features, etiology, diagnostic tests, and treatment.	10

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