

(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai)

B. Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY

1401 – ANATOMY

I YEAR

UNIT I – ANATOMY OF BASIC OF ANATOMICAL TERMINOLOGIES AND BONY THORACIC CAGE

I. ELABORATE ON

10 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.no	Questions	Reference	Bloom's Taxonomy
1	Describe the Bony Thoracic Cage in detail, including its components (sternum, ribs, vertebrae), the three classes of ribs, and its overall protective and respiratory functions.	August 2011	Analyze / Describe
2	Define Anatomical Position . Elaborate on all the primary Directional Terms (Superior/Inferior, Anterior/Posterior, Medial/Lateral, Proximal/Distal), giving a specific anatomical example for each pair.	November 2022	Describe / Apply
3	Discuss the Classification of Ribs (True, False, Floating) and detail the characteristic features of a Typical Rib , including its parts and articulations.	August 2012	Analyze / Describe
4	Explain the various Planes of the Human Body (Sagittal, Coronal, Transverse) . Discuss how these planes are critically important for interpreting modern medical imaging techniques.	August 2015	Explain / Apply
5	Describe the Sternum (Breast Bone), detailing its three parts and their specific articulations. Write a note on the anatomical and clinical significance of the Sternal Angle .	August 2011	Describe / Analyze
6	Define Body Cavities . Describe the boundaries,	November	Describe /

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S.no	Questions	Reference	Bloom's Taxonomy
	subdivisions (e.g., Pleural, Pericardial, Mediastinum), and major contents of the Thoracic Cavity .	2022	Understand
7	Discuss the Applied Anatomy of the Thoracic Cage, covering clinical conditions such as Rib Fractures, Flail Chest, and the site for Bone Marrow Aspiration.	August 2012	Apply / Evaluate
8	Write an essay on the Joints of the Thoracic Cage , including their type and the movements they permit, especially during the process of respiration.	August 2015	Analyze / Describe
9	Define the Intercostal Space . Describe its boundaries and detailed contents (Intercostal muscles, vessels, and nerves).	August 2011	Describe / Understand
10	Differentiate between the Atypical Ribs (1st, 2nd, 11th, and 12th) and a Typical Rib . Explain the features that make them unique.	November 2022	Analyze / Differentiate

WRITE NOTES ON**5 MARKS****REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER**

S.no	Questions	Reference	Bloom's Taxonomy
1	Write a note on the Sternal Angle (Angle of Louis) and list two anatomical structures located at this level.	August 2011	Understand
2	Explain the anatomical significance of the directional terms Proximal and Distal with	November 2022	Understand / Explain

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S.no	Questions	Reference	Bloom's Taxonomy
	reference to the limbs.		
3	Classify the 12 pairs of ribs into True, False, and Floating Ribs , giving the rib numbers for each group.	August 2012	Understand / Classify
4	Explain the key differences between the Coronal and Transverse planes of sectioning the body.	August 2015	Understand / Differentiate
5	Write a short note on the Head and Tubercle of a typical rib and their points of articulation with the vertebrae.	August 2011	Describe
6	Describe the concepts of Superficial and Deep in anatomical terminology, providing examples involving the skin, muscle, and bone.	November 2022	Explain / Apply
7	Enumerate the three layers of Intercostal Muscles and state their primary function in respiration.	August 2012	Understand / Enumerate
8	Define and provide examples for the terms Ipsilateral and Contralateral .	August 2015	Understand / Define
9	Write a note on the Costovertebral Joints in the thoracic cage.	August 2011	Describe
10	Explain the Anatomical Position and why it is essential for anatomical descriptions.	November 2022	Understand / Explain

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S.no	Questions	Reference	Bloom's Taxonomy
1	Name the three main parts of the Sternum .	August 2011	Remember / List
2	Define the anatomical term Posterior (Dorsal).	November 2022	Remember / Define
3	List the three main bones that form the Bony Thoracic Cage.	August 2012	Remember / List
4	Define a Coronal Plane .	August 2015	Remember / Define
5	What is the difference between Cranial and Caudal ?	August 2011	Remember / Differentiate
6	Name the most inferior part of the sternum that is often cartilaginous in youth.	November 2022	Remember / Name
7	Define a Transverse Plane .	August 2012	Remember / Define
8	List three structures that run in the Costal Groove of a rib.	August 2015	Remember / List
9	Which vertebrae does the 1st rib articulate with?	August 2011	Remember / Recall
10	Define Midsagittal Plane .	November 2022	Remember / Define
11	What are Floating Ribs ? Give their numbers.	August 2012	Remember / Define
12	Name the bones that articulate with the Manubrium of the sternum.	August 2015	Remember / List

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S.no	Questions	Reference	Bloom's Taxonomy
13	Define the term Lateral .	August 2011	Remember / Define
14	Name the part of a typical rib found just lateral to the tubercle.	November 2022	Remember / Recall
15	State the anatomical significance of the Jugular Notch (Suprasternal Notch).	August 2012	Remember / State