

- Q.10 The diaphragm is a muscular structure that separates the :  
(a) Thoracic and abdominal cavities  
(b) Left and right lungs  
(c) Small and large intestines  
(d) Heart and lungs

### SECTION-B

**Note:** Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

- Q.11 Discuss the role of the digestive system in breaking down and absorbing nutrients from food .  
Q.12 Discuss the gross anatomy of abdomen.  
Q.13 Compare and contrast the anatomical structure of the skeletal and muscular systems.  
Q.14 Discuss details on arterial system.  
Q.15 Describe the structure of the heart, its chambers and the flow of blood through it.  
Q.16 Differentiate between arteries and veins in terms of their structure and function.  
Q.17 Discuss the bony structures and muscles found in upper thorax.  
Q.18 Summarize the cross sectional anatomy of lungs.

### SECTION-C

**Note:** Long answer type questions. Attempt any one question out of two questions. (10x1=10)

- Q.19 Describe the anatomy of (a) Basal ganglia  
(b) Spinal cord  
Q.20 Provide an overview of the digestive system, highlighting the cross-sectional anatomy of the stomach, small intestine , and large intestine.

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DVOC (Level 5 )

Sem 1st / Medical Imaging Technology

Subject : Basic Anatomy ( Cross Sectional Anatomy- I )

Time : 2 Hrs.

M.M. : 50

### SECTION-A

**Note:** Very short answer type questions . Attempt all ten questions (10x1=10)

- Q.1 In the lower leg , \_\_\_\_\_ is commonly referred to as the shinbone?  
Q.2 \_\_\_\_\_ are small sacs filled with fluid associated muscles and ligaments, serving the purpose of cushioning the joint and preventing friction.  
Q.3 Tell the organ that stores bile and aids in digestion ?  
Q.4 Name the tiny air sacs in the lungs where gas exchange occurs ?  
Q.5 Brain consists of \_\_\_\_\_ ventricles.  
Q.6 The \_\_\_\_\_ separates the thoracic and abdominal cavities and is a key muscle for breathing.  
Q.7 The \_\_\_\_\_ is a bone in the forearm located on the same side as the pinky finger.  
Q.8 The \_\_\_\_\_ is the largest artery in the human body and carries oxygenated blood away from the heart.  
Q.9 One of given bones is not part of the human forearm?  
(a) Radius (b) Ulna (c) Femur (d) Humerus