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Diploma in Pharmacy 1st Year
Human Anatomy and Physiology
Important Questions
Chapter 1 : Human Anatomy and Physiology

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Chapter 1

Human Anatomy and Physiology

IMPORTANT Questions

Q1. Write the Scope of Anatomy and Physiology.

Ans.

- Anatomy : Is the study of different structures of the human body and their relationship with each other.

Anatomy is made up of two Greek words

ana means **up**

temos means **to cut**

- Physiology : Is the study of the functioning of these structures.
(or)

It can be also defined as the study related to the science of various body functions and their working. Physiology is made up of two Greek words

physics means **nature**

logos means **study**

- Study of human anatomy provides an essential base for the understanding of physiology and pathophysiology.
- Helpful in the study of human evolution and development.
- To understand the pathology of disease and pathological changes.
- To determine the techniques of surgeries.
- To know the parameters of normal health.

Q2. Define Various Terminologies Used in Anatomy.

Ans. Terminologies used in anatomy

The anatomical terminology of the body can be studied under three groups:

- Directional terms
- Sectional planes\planes of the body
- Body cavities

Directional terms

Directional terminologies are used to locate and one body structure with respect to other

- **Superior (Upper,Cranial)end** : The end of the head lies in the upper most position therefore it is known as the superior end.
- **Inferior (lower) end** : This part starts from the extremity of the main body or the trunk along the legs in the downward direction or ground.

- **Anterior or ventral end :** This includes the body parts present on the front side , like chest, nipples, abdomen and external genitalia.
- **Posterior or Dorsal end:** This includes the body parts present on the back side, vertebral column (also known as the backbone), shoulder blades and buttocks.
- **Supine position:** In this positions the face is towards the upper side (roof) while the back faces downwards.
- **Prone position:** In this position the face focuses downwards or towards the
 - ground.
- **Medial position:** It is an imaginary line passing through the longitudinal axis of the body dividing it into two equal halves from the middle starting from front to the back.
- **Lateral position :** It is that anatomical position of the body in which it is divided into two fragments though the mid line and the body structures remain away.
- **Proximal:** It describes a body part that is closer to a point of attachment or closer to the trunk of the body than another part. For example the elbow is proximal to the wrist
- **Distal :** This position is the opposite of proximal. It means that a particular body part is farther from the point of attachment. for example , the fingers are distal to the wrist.
- **Superficial :** This position means situated near the surface.
- **Peripheral :** This position means outward or far away from the surface.

Planes of the body

- **Sagittal :** In this plane, an imaginary line slicing the body (from head to toes) into
 - two halves with erratic proportion is drawn, from top to the down.
- **Horizontal :** This plane is parallel to the ground and passes through the body at
 - the 90 degree angle to both coronal and medial plane.
- **Coronal :** This plane divided the body into anterior and posterior portion, by
 - passing through the body at the right angle to the medial system.
 - Anterior means the front portion and posterior means the back portion
- **Lithotomy position :** In this position the individual is lying on the back with
 - thighs fully stretched and knees directing towards the roof.

Body cavities

- ❖ Cavities are the spaces of the body, containing internal organ.
- ❖ The two main cavities of the body are Dorsal cavity and Ventral cavity.
- ❖ Ventral cavity is a largest cavity which is further sub divided into the thoracic and abdominopelvic cavity.
- ❖ Both these cavities are separated by dome shaped respiratory muscles called Diaphragm.

The Different types of Cavity

- **Thoracic cavity :** This cavity is present ventrally on the upper side of the body. It also known as the chest cavity this cavity contain the trachea, lungs, heart large blood vessels etc.
- **Abdominal cavity :** This cavity is laterally attached to the body wall posteriorly by the pelvic cavity anteriorly by the diaphragm. This cavity contain maximum part of the gastrointestinal tract, kidneys, etc .
- **Pelvic cavity :** This is a body cavity that is bounded by the pelvic bones of the pelvis. This cavity contain urogenital system as well as the rectum.
- **Dorsal cavity :** This is the smallest cavity. In this the organs are situated more
 - posteriorly within the body. This Dorsal cavity is sub divided into 2 parts
- The first part include Cranial cavity (upper portion which houses the Brain)
- The Second part include spinal cavity (lower portion which houses the spinal cord)

