## Introduction and Scope of Anatomy and Physiology

## Give the scope/importance of anatomy and physiology.

## Scope of Anatomy and Physiology:

- 1. Anatomy is the study of structure and physiology is the study of functions of body parts.
- 2. This subject is designed to impart fundamental knowledge of the structure and functions of the various systems of the human body.
- 3. This subject helps to understand homeostatic mechanisms.
- 4. This subject provides the basic knowledge required to understand the various disciplines in pharmacy.
- 5. The knowledge of anatomy and physiology is useful for understanding pathology of disease and pathological changes.

## 2 Define the terms.

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- 1. **Anatomy:** It is the study of different parts of the body, their forms, position and relationship with each other.
- Physiology: It is the study of function of the body as a whole and functions of individual structures and systems present in the body.
- 3. **Cell:** Cell is the smallest, basic, living, structural and functional unit of the body.
- 4. **Tissue:** A group of cells having similar physical characters performing same specialized function.
- 5. **Anatomical position:** This is the upright position of the body with the head facing forwards, the arms at

- the sides with palms of the hands facing forward and the feet together.
- 6. **Proximal end:** It means the part of the structure nearest to a given point.
- 7. **Distal end:** It means the part of the structure away from a given point.
- 8. **Median/medial/axial:** The structure situated actually on the axis is known as median.
- 9. **Longitudinal:** A line along or parallel to the axis is known as longitudinal.
- 10. **Lateral:** It means the position present at the side of the
- 11. **Transverse:** A line across at a right angle to the axis is a transverse.
- 12. **Superior:** It is the upper end of the body.
- 13. **Inferior:** It is the lower end of the body.
- 14. **Ventral/anterior:** It is the aspect of the body which faces viewer.
- 15. **Dorsal/posterior:** It is the surface of the body at back side.
- 16. **Fossa:** It is a depression or a hollow.
- 17. **Meatus:** It is a tube-shaped cavity within a bone.
- 18. **Foramen:** It is a hole in the structure.
- 19. **Sinus:** It is a hollow cavity within a bone.
- 20. **Facet:** It is a small, flat articulating surface.
- 21. **Condyle:** It is a smooth rounded projection of bone which takes part in joint.
- 22. **Septum:** It is a partition separating two cavities.
- 23. **Fissure or cleft:** It indicates narrow slit.
- 24. **Sutures:** These are fixed joints between bones of skull and cranium.
- 25. **Articulation:** It is a joint between two or more bones.