

Anatomical Study of the Digestive System

Experiment 27 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To identify the main structures of the digestive system on models, charts or preserved teaching material.

Principle

A continuous digestive tube with liver, gallbladder and pancreas supporting digestion. Structural relationships help explain the physiological function.

Structures and Functional Link

- Stomach, duodenum, jejunum, ileum, colon, liver and pancreas.
- Mouth → pharynx → oesophagus → stomach → small intestine → large intestine → rectum.
- The liver produces bile; the gallbladder stores and concentrates it.

Requirements

- Gastrointestinal tract and accessory organs model or chart
- Institution-approved preserved demonstration material if available
- Labelled drawing sheet

Procedure

1. Orient

Identify the anatomical position and major divisions of the model or chart.

2. Identify

Locate and label: Stomach, duodenum, jejunum, ileum, colon, liver and pancreas.

3. Trace function

Mouth → pharynx → oesophagus → stomach → small intestine → large intestine → rectum.

4. Compare structures

Relate tissue or organ design to its major function.

5. Record

Draw a labelled schematic and explain the functional pathway in your own words.

Human Anatomy and Physiology

Observations and Record

Structure / pathway	Identification / function
Main structures	_____
Inlet / outlet or connections	_____
Labelled drawing	_____
Functional pathway	_____
Structure-function explanation	_____

Result

The main structures were identified and labelled as _____. The functional pathway was explained as _____.

Precautions

- Handle museum material only as authorised.
- Use the provided orientation rather than assuming left/right from the viewer's position.
- Do not infer a patient diagnosis from the teaching model.

Viva Questions and Answers

1. Which structures should be identified?

Stomach, duodenum, jejunum, ileum, colon, liver and pancreas.

2. What pathway should be traced?

Mouth → pharynx → oesophagus → stomach → small intestine → large intestine → rectum.

3. What key concept is illustrated?

The liver produces bile; the gallbladder stores and concentrates it.

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