

B.Sc., PHYSICIAN ASSISTANT

FIRST YEAR

SUBJECT CODE & NAME – 1601 - BIOCHEMISTRY

PUZZLES - TOPIC – GLUCOSE TOLERANCE TEST

1. Logical Reasoning Puzzle: Sequencing GTT Steps

Objective: To logically sequence the steps of a Glucose Tolerance Test procedure, understanding the rationale behind each to ensure accurate testing and diagnosis.

Tasks and Clues: You have five steps in a GTT that are jumbled. Use logic to arrange them in the correct order. Each step depends on the previous one, and timing is critical.

Jumbled steps:

- A. Measure blood glucose at 1-hour and 2-hour intervals.
- B. Patient fasts for at least 8 hours overnight.
- C. Administer 75g oral glucose solution.
- D. Confirm patient is not ill or stressed, as it affects results.
- E. Draw baseline fasting blood sample.

Clues:

- Preparation confirmation happens before any blood draw.
- Fasting precedes the baseline measurement.
- Glucose intake follows the baseline.
- Interval measurements come last, with exact timing. Task: Arrange the steps as 1-5 and explain one dependency without revealing the full sequence.

Rubric:

Criterion	Description	Marks Allotted (Out of 10)
Correct Sequencing	All steps arranged logically without errors.	4
Understanding Dependencies	Explains at least two logical links between steps.	3
Rationale for Order	Provides reasoning tied to GTT accuracy.	2
Completeness	Covers all steps without omissions.	1