## SNS COLLEGE OF ALLIED HEALTH SCIENCE, COIMBATORE -35

(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai)





## PUZZLE 1138 - PRINCIPLES OF ANESTHESIA 1 UNIT I – ANESTHESIA MACHINE AND MEDICAL GAS SUPPLY

**Anesthesia Machine Logic Puzzle: Faulty Gas Supply** 

Scenario: Total Marks: 10 Marks

In an operating room, an anesthesia machine is equipped with two medical gas supplies: Oxygen (O2) and Nitrous Oxide (N2O). Each supply connects to the machine via a pipeline inlet. However, during a routine check before surgery, the anesthesia technician notices that one pipeline is disconnected, and the machine's fail-safe system has activated, cutting off the N2O flow to prevent hypoxia. The machine has three inlet ports labeled A, B, and C, but only two are active (O2 and N2O). Port C is a dummy or unused port.

## The following clues are true:

- 1. The O2 supply is connected to either port A or port B, but not both.
- 2. If the N2O supply is in port B, then port A is the disconnected one.
- 3. Port C is not carrying any medical gas supply.
- 4. Exactly one port is disconnected.
- 5. The disconnected port is not port C.

**Question**: Which port is connected to the O2 supply, which to N2O, and which is disconnected?

## **RUBRICS:**

Criterion	Points
Key Elements	2 pts
Logical Steps	4 pts
Correct Solution	2 pts
Safety Insight	2 pts
Total	10 pts