

# SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

## UNIT 2 CASE STUDY BASED PUZZLES

### TOPIC 4 – PLAZMA VOLUME EXPANDER

#### PUZZLE-1 The Accident Case



#### **Puzzle Questions:**

1. What class of drugs should be immediately administered to restore circulation?
  2. Should a crystalloid or colloid be preferred initially? Why?
  3. Name one natural and one synthetic plasma volume expander suitable in this case.
-

**Puzzle 2: A BURN PATIENT**



**Puzzle Questions:**

1. Which plasma volume expander would be most appropriate here?
  2. Why is **albumin** preferred over crystalloids in this condition?
  3. Mention one disadvantage of using plasma protein solutions.
- 

**Puzzle 3: The Post-Surgery Drop**



**Puzzle Questions:**

1. Which type of plasma expander has a **long intravascular half-life**?
  2. Identify the most suitable agent.
  3. Why is this agent preferred over normal saline?
-

**Puzzle 4: The Allergic Reaction**



**Puzzle Questions:**

1. Which plasma volume expander is most commonly associated with **anaphylactic reactions**?
  2. What immediate action should be taken?
  3. Name a **safer alternative** for future use.
-

**Puzzle 5: Identify the Drug**



**Puzzle:**

- Which group of drugs is used in this situation?
- Name one example.