

SNS COLLEGE OF ALLIED HEALTH SCIENCE COIMBATORE -35 (Affiliated to the TamilNadu Dr M.G.R Medical University, Chennai)



B. Sc. OPERATION THEATRE AND ANESTHESIA TECHNOLOGY-2023 BATCH INTERNAL EXAMINATION 1

Year: SECOND YEAR Date of the exam: 29/03/2025

Subject Name: Paper III – PRINCIPLES OF ANESTHESIA-1

Time: 3 hours Subject Code: 1138 Maximum: 100 marks

Answer all the questions

I. Elaborate on $10 \times 3 = 30$

1. Safety features of Anesthesia Machine

- 2. Write a note on Manifold. Discuss it's advantages and safety features
- 3. Draw all the mapleson circuits and discuss about each type

II. Write notes on $5 \times 8 = 40$

- 1. William T G Morton
- 2. Define Anesthesia and classify it using flowchart
- 3. Methods to preserve humidity
- 4. John Snow
- 5. Sodalime
- 6. Cylinder color coding system
- 7. Pin index system
- 8. Vaporizers characteristics and safety features

III. Short answers on $3 \times 10 = 30$

- 1. Emergency Oxygen flush
- 2. Filling ratio
- 3. Bain circuit
- 4. APL valve
- 5. Safety features of Rotameter
- 6. Cylinder valve
- 7. Components of Breathing system
- 8. Pressure regulators
- 9. Traids of anesthesia
- 10. i. AIIMS PG 2003: Pin index system is a safety feature adopted in anesthesia machines to prevent:
 - a. Incorrect attachment of anesthesia machines
- b. Incorrect cylinder attachment

c. Incorrect pipeline connection

- d. Incorrect gas usage
- ii. NEET PG 2018: Which of the following is the first public demonstration of general anesthesia?
- a. John Snow administering chloroform to Queen Victoria b. Horace Wells using N2O for dental extraction
- c. William T G Morton using ether at MGH
- d. Crawford Long using ether for tumor removal
- iii.JIPMER PG 2019: Sodalime is used in anesthesia circuits primarily to:
- a. Humidify inspired gases

b. Absorb carbon dioxide

c. Filter bacteria

d. Regulate oxygen flow