SNS COLLEGE OF ALLIED HEALTH SCIENCE, COIMBATORE -35

(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai) **B.Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY**



SUBJECT: 1422 - CARDIO PULMONARY BYPASS AND PERFUSION TECHNOLOGY

UNIT IV - MYOCARDIAL PROTECTION & HYPOTHERMIA- QUESTION BANK

REFERENCE - THE TAMILNADU DR. M.G.R MEDICAL UNIVERSITY QUESTION PAPER

I. ELABORATE ON

10 MARKS

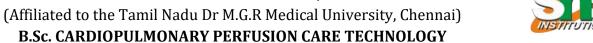
| Serial Number | Question | Reference | Bloom's Taxonomy |
|------------------|---|--|---------------------|
| 1 | Induced Cardiac Arrest | February 2014, February 2017 | Analyze |
| 2 | Hypothermia | February 2014, August 2014, February 2017, August 2018, February 2019, August 2019, December 2020, November 2023, April 2024 | Analyze |
| 3 | Cardioplegia | August 2013 | Analyze |
| 4 | Principles of myocardial protection | February 2018, August 2019, January 2022 | Analyze |
| 5 | Types of hypothermia and write notes on deep hypothermic circulatory arrest | February 2018, November 2023, April 2024 | Analyze |
| 6 | Myocardial Protection in cardiac surgery | August 2019 | Analyze |
| 7 | Temperature management in Cardio Pulmonary Bypass | August 2014 | Analyze |

II. WRITE NOTES ON

5 MARKS

| Serial Number | Question | Reference | Bloom's Taxonomy |
|------------------|--|---|---------------------|
| 1 | Modified cold prime cardioplegia | February 2014, August 2016 | Understand |
| 2 | Myocardial protection | February 2016, August 2019 | Understand |
| 3 | Methods of Cardioplegia administration | February 2016, February 2019, April 2024 | Understand |
| 4 | Hypothermia | February 2016 | Understand |

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| Serial Number | Question | Reference | Bloom's Taxonomy |
|------------------|---|----------------------------|---------------------|
| 5 | Deep hypothermic cardiac arrest of the heart | February 2016 | Understand |
| 6 | Warm blood cardioplegia | August 2018 | Understand |
| 7 | Custodiol cardioplegia solution | August 2017, November 2023 | Understand |
| 8 | Cold prime cardioplegia | September 2022 | Understand |
| 9 | Del Nido cardioplegia | April 2023 | Understand |
| 10 | Types of Cardioplegia and methods of Administration | April 2025 | Understand |

III. WRITE SHORT NOTES ON

3 MARKS

| Serial Number | Question | Reference | Bloom's Taxonomy |
|------------------|--|---------------|---------------------|
| 1 | Induced Cardiac arrest Principles | April 2024 | Remember |
| 2 | Deep Hypothermic cardiac arrest | April 2025 | Remember |
| 3 | Cardioplegia | January 2025 | Remember |
| 4 | Hyperkalemia- causes and management during Cardio Pulmonary Bypass | November 2023 | Remember |