

**SNS COLLEGE OF PHYSIOTHERAPY**

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

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| S. No | Question Type    | Question                                                                                                                                                                                                                                              | Year     | Blooms Taxonomy |
|-------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|
| 1     | Essay - 15 Marks | Define thoracotomy. Classify types of thoracotomy. Explain the indications, surgical approach, post-operative complications, and role of chest physiotherapy in pain management and lung re-expansion after posterolateral thoracotomy.               | Jan 2022 | Analyze         |
| 2     | Essay - 15 Marks | Discuss lobectomy indications, anatomical considerations in right upper, middle, and lower lobectomy, post-operative airway clearance issues, and evidence-based chest physiotherapy protocol for secretion management and prevention of atelectasis. | Jun 2022 | Analyze         |

|   |                  |                                                                                                                                                                                                                                                         |          |         |
|---|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| 3 | Essay - 15 Marks | Compare pneumonectomy vs. lobectomy in terms of physiological impact on ventilation-perfusion matching, compensatory mechanisms in remaining lung, and long-term chest physiotherapy goals for respiratory muscle training and postural correction.     | Nov 2023 | Analyze |
| 4 | Essay - 15 Marks | Describe decortication surgery pathophysiology of empyema necessitating decortication, surgical steps, post-operative pleural space management, and structured chest physiotherapy intervention to restore lung compliance and prevent re-accumulation. | Aug 2024 | Apply   |
| 5 | Essay - 15 Marks | Explain suctioning in chest physiotherapy indications, contraindications, types—nasotracheal, orotracheal, endotracheal—step-b y-step procedure with aseptic precautions, and complications                                                             | Aug 2009 | Analyze |

|   |                  |                                                                                                                                                                                                                           |          |         |
|---|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
|   |                  | including hypoxia, trauma, and infection. Support with clinical reasoning.                                                                                                                                                |          |         |
| 6 | Essay - 15 Marks | Trace the physiological basis of secretion retention post-thoracotomy. Discuss the role of suctioning in preventing pneumonia, steps of nasopharyngeal suctioning in ICU, and monitoring parameters during the procedure. | Aug 2010 | Analyze |
| 7 | Essay - 15 Marks | Define decortication and pneumonectomy. Compare their impact on chest wall mechanics and breathing pattern. Formulate a 3-phase chest physiotherapy rehabilitation program from ICU to community discharge.               | Feb 2020 | Analyze |
| 8 | Essay - 15 Marks | Discuss indications and types of suctioning in post-lobectomy patients with weak cough. Explain pre-oxygenation, catheter selection, negative pressure settings, and post-suction care to prevent mucosal                 | Feb 2012 | Analyze |

|           |                         |                                                                                                                                                                                                                                 |                 |                   |
|-----------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|
|           |                         | <b>damage and hypoxemia.</b>                                                                                                                                                                                                    |                 |                   |
| <b>9</b>  | <b>Essay - 15 Marks</b> | <b>Explain the indications of suctioning in chest physiotherapy. Describe the step-by-step procedure of endotracheal suctioning in a ventilated post-thoracotomy patient, including complications and nursing coordination.</b> | <b>Apr 2014</b> | <b>Analyze</b>    |
| <b>10</b> | <b>Essay - 15 Marks</b> | <b>Draw a labeled diagram of bronchial tree showing segmental anatomy. Explain how lobectomy affects dead space and VQ ratio. Discuss suctioning techniques to clear segmental collapse post-surgery.</b>                       | <b>Oct 2016</b> | <b>Apply</b>      |
| <b>11</b> | <b>Short Notes</b>      | <b>Posterolateral thoracotomy</b>                                                                                                                                                                                               | <b>Aug 2009</b> | <b>Understand</b> |
| <b>12</b> | <b>Short Notes</b>      | <b>Indications of lobectomy</b>                                                                                                                                                                                                 | <b>Aug 2009</b> | <b>Understand</b> |
| <b>13</b> | <b>Short Notes</b>      | <b>Extrapleural pneumonectomy</b>                                                                                                                                                                                               | <b>Oct 2022</b> | <b>Remember</b>   |
| <b>14</b> | <b>Short Notes</b>      | <b>Complications of endotracheal</b>                                                                                                                                                                                            | <b>Oct 2022</b> | <b>Analyze</b>    |

|    |               |                                               |          |            |
|----|---------------|-----------------------------------------------|----------|------------|
|    |               | suctioning                                    |          |            |
| 15 | Short Notes   | Role of physiotherapy post-decortication      | Apr 2023 | Understand |
| 16 | Short Notes   | Types of suction catheters                    | Nov 2023 | Understand |
| 17 | Short Notes   | Contraindications of nasotracheal suction     | Nov 2023 | Remember   |
| 18 | Short Notes   | Negative pressure settings in suctioning      | Aug 2024 | Analyze    |
| 19 | Short Notes   | Pleural fibrosis in empyema                   | Feb 2025 | Understand |
| 20 | Short Notes   | Pre-oxygenation before suctioning             | Feb 2010 | Understand |
| 21 | Short Answers | Site of incision in VATS lobectomy            | Sep 2021 | Remember   |
| 22 | Short Answers | Common indication for pneumonectomy           | Jan 2022 | Remember   |
| 23 | Short Answers | Definition of decortication                   | Jun 2022 | Understand |
| 24 | Short Answers | Maximum negative pressure in adult suctioning | Apr 2023 | Remember   |
| 25 | Short Answers | One major complication of over-suctioning     | Nov 2023 | Understand |

|    |                  |                                                        |             |          |
|----|------------------|--------------------------------------------------------|-------------|----------|
| 26 | Short<br>Answers | Duration of each<br>suction pass                       | Nov<br>2023 | Remember |
| 27 | Short<br>Answers | Catheter size for<br>pediatric<br>nasotracheal suction | Feb<br>2010 | Remember |
| 28 | Short<br>Answers | Sign of effective<br>suctioning                        | Aug<br>2009 | Remember |
| 29 | Short<br>Answers | Post-suction<br>intervention to<br>prevent hypoxia     | Aug<br>2010 | Remember |
| 30 | Short<br>Answers | Clinical test to<br>assess need for<br>suctioning      | Jan<br>2022 | Apply    |