

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. Respiratory Technology Degree Examination – 05-Jun-2024

Time: Three Hours

Max. Marks: 100 Marks

Respiratory Technology – Advanced – Paper-III (RS-3)

Q.P. CODE: 3363

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Second Question Choice)

2 x 10 = 20 Marks

1. Surfactant replacement therapy, types of surfactants, indications and techniques.
2. Explain neonatal resuscitation with algorithm.

OR

Congenital heart disease – Cyanotic and acyanotic and its management.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Oxygen and Heliox therapy, indications, delivery devices and hazards.
4. Meconium aspiration syndrome.
5. Croup.

OR

Inhaled nitric oxide therapy in paediatrics.

6. Stages of fetal lung development.
7. High Flow Nasal Cannula.
8. Mechanism of heat loss.
9. Indications, contraindications and complications of NIV in neonates.
10. Calorimetry.

OR

Aerosol delivery devices.

11. Extracorporeal membrane oxygenation.
12. Management of shock in pediatrics.

SHORT ANSWER

10 x 3 = 30 Marks

13. Epiglottitis.
14. Complications of surfactant.
15. Pathophysiology of persistent pulmonary hypertension (PPHN) of neonates.
16. LMA – Indication and complications.
17. Atrial septal defect.
18. APGAR scoring.
19. Hypothermia.
20. Pulse oximetry.
21. Contraindications to pediatric flexible bronchoscopy.
22. Anatomy of pleura.
