

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. Respiratory Technology Degree Examination – 11-May-2026

Time: Three Hours

Max. Marks: 100

RESPIRATORY CARE 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. Describe indications and types of surfactant therapy. Discuss in detail techniques of surfactant delivery
2. Discuss resuscitation of a newborn baby including initial steps of newborn care, airway management and post resuscitation care

OR

Discuss oxygen therapy in newborn, delivery devices and complications

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Indications of HFNC
 4. Capillary blood gas sampling
 5. Transient tachypnea of the newborn
- OR**
6. Cleft palate
 6. Bronchopulmonary dysplasia
 7. Examination and assessment of the neonates
 8. Bubble CPAP
 9. Fetal development
 10. Congenital heart defects

OR

Interfaces for non-invasive ventilation in neonates

11. Oxygen toxicity
12. Nitric Oxide Therapy

SHORT ANSWER

10 x 3 = 30 Marks

13. ECMO types
14. Indications of high frequency ventilation
15. APGAR scoring
16. Pulse oximetry
17. Contraindications of NIV
18. Pediatric asthma
19. Indications of central venous catheterization
20. Croup
21. Examples of artificial surfactants
22. Complications of hypoxia in the newborn
