

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Respiratory Care Technology Degree Examination – 26-Dec-2022

Time: Three Hours

Max. Marks: 100 Marks

Introduction to Respiratory Technology (RS-3)

Q.P. CODE: 3359

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. Explain spirometry. Describe obstructive and restrictive disease with graph.
2. Hyperbaric oxygen therapy, physiological effects, methods of administration, indications and contraindications.

OR

Aerosol drug delivery systems.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Predictors in difficult airway (any two).
4. Humidification therapy.
5. Physical and electrical oxygen analyzers.

OR

Hypoxia – Definition, types and management.

6. Intrapulmonary percussive ventilation.
7. Incentive spirometers – Types, indications, contraindications and complications.
8. Manual resuscitators – Types, parts, indications and hazards.
9. Pulmonary artery pressure monitoring.
10. Peak inspiratory and expiratory flowmeters.

OR

Basic cardiac life support.

11. Oropharyngeal airway.
12. Mechanism of coughing.

SHORT ANSWER

10 x 3 = 30 Marks

13. Pulse oximetry.
14. Explain positive expiratory pressure devices (any two).
15. Huffing.
16. Indication and contraindication of Tracheostomy.
17. Wright's spirometry.
18. Dalton's law of partial pressure.
19. Difference between main stream and side stream capnometry.
20. Laryngoscopes.
21. Hyperthermia.
22. Bernoulli's principle.
