

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Respiratory Care Technology Degree Examination – 26-Nov-2024

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. Describe the physiology and principle governing Humidifier Function. Write in detail about types, advantages and disadvantages of humidifier.
2. Describe the various types of defibrillators, its use and role in clinical application.

OR

Describe pathophysiology, techniques and significance of Functional Residual Capacity, Residual volume and total lung capacity. Add a note on Residual volume/Total lung capacity ratio

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Types, techniques and hazards associated with manual resuscitator.
4. Intercostal drains.
5. Nasopharyngeal airway.

OR

Role and scope of respiratory therapist in the health care sector.

6. Wrights spirometry.
7. Continuous positive airway pressure.
8. Endotracheal intubation.
9. Maximum voluntary ventilation.
10. Diffusion capacity of lung for carbon monoxide.

OR

Cardiopulmonary exercise testing.

11. Methacholine challenge
12. Impulse Oscillometry.

SHORT ANSWER

10 x 3 = 30 Marks

13. Suction catheters.
14. Ventilatory muscle trainers.
15. Postural drainage.
16. Contact precaution.
17. Dalton's law of partial pressure.
18. End-tidal capnography.
19. Cleaning and disinfection of Bronchoscope.
20. Indications of aerosol therapy.
21. Types of venous access.
22. Glasgow coma scale score.