

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 04-Jun-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. Discuss aerosol therapy, characteristics of therapeutic aerosols, indications, contraindications and hazards.
2. Discuss cardiopulmonary exercise testing.
OR
Lung expansion therapy – Types, indications and complications.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Algorithm of advanced cardiac life support.
4. Intrapulmonary percussive verification.
5. Discuss bronchoscopy guided endotracheal intubation.
OR
Discuss in brief about impulse oscillometer.
6. Write a short note on Intercostal Drains' tubes.
7. Discuss in brief about extra corporeal membrane oxygenation.
8. Discuss in brief about ETCO₂ (capnometry).
9. Dry powder inhalers.
10. Explain body Plethysmography.
OR
Endotracheal suctioning – Indications, techniques and complications.
11. 6-minute walk test.
12. Oxygen analyzers.

SHORT ANSWER

10 x 3 = 30 Marks

13. PaO₂/Fio₂ – normal values and classify ARDS based on the same.
14. Breathing valves.
15. Laryngeal mask airway.
16. State the following gas laws – Ficks's law, Henry's law, Graham's law.
17. Complications of Broncho provocation tests.
18. Humidifiers – Indications and types.
19. Mallamapti classification of airways.
20. Laryngoscopes.
21. Define with diagram – Total lung capacity, functional residual capacity, Expiratory reserve volume.
22. Indications of central venous catheterisation.