Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 31-Oct-2026

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 role of spirometry in evaluation of a patient presenting with Breathlessness.
2. Describe the types, indications and techniques of venous access. Add a note on importance of asepsis in vascular procedure.

   OR

   Enumerate the predictors of difficult airway. Describe the various types of artificial airway.

SHORT ESSAYS (Question No 5 & 10 choice) **10 x 5 = 50 Marks**

3. Endotracheal suction.
4. Hyperbaric oxygen therapy.
5. Double lumen tubes.

   OR

   Intermittent positive – pressure breathing devices.
6. Explain the technique to use Metured Dose Inhaler
7. ECMO
8. Pulse oximetry.
9. Electrochemical oxygen analyzers.
10. Cuff manometer.

    OR

    Characteristics of therapeutic aerosols.
11. Personal protective gears.
12. Bronchoprovocation test.

SHORT ANSWER **10 x 3 = 30 Marks**

13. Bernoulli principle.
14. Blood gas machine.
15. Indication for flexible bronchoscopes.
16. Oxygenation index.
17. Cough assist.
18. Humidifier – types and uses.
19. Single breath nitrogen wash out test.
20. Large volume jet nebulizers.
21. Difference between side stream and main stream Capnometers.
22. Difference between adults and infants CPCR.

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