Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 17-May-2023

Time: Three Hours | Max. Marks: 50 Marks

Applied Pathology (RS-3)

Q.P. CODE: 3396

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3396 and 3397 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Classify anemia. Discuss the laboratory diagnosis of Hemolytic anemia.
2. Discuss the causes, effect and diagnosis of pleural effusion.

SHORT ESSAYS (Answer any Five) 5 x 5 = 25 Marks

3. Define and **classfy** leukemia.
4. Laboratory diagnosis of bleeding disorder.
5. Dilated cardiomyopathy.
6. Morphology and etiopathogenesis of Bronchiectasis.
7. Discuss on coal worker's pneumoconiosis.
8. Hematocrit.

SHORT ANSWER 5 x 3 = 15 Marks

9. Types of hypertension.
10. Differentiate obstructive and restricted pulmonary disease.
11. Normal value of bleeding and clotting time.
12. Morphologic features of Emphysema.
13. Types of chronic obstructive pulmonary disease.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 17-May-2023

Time: Three Hours | Max. Marks: 50 Marks

Applied Microbiology (RS-3)

Q.P. CODE: 3397

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3396 and 3397 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Define and classify sterilisation. Describe the principle and applications of autoclave

2. Enumerate the hepatitis virus. Describe the morphology, mode of transmission, laboratory diagnosis and prevention of hepatitis B virus

SHORT ESSAYS (Answer any Five) 5 x 5 = 25 Marks

3. CSSD
4. Ventilator associated Pneumonia
5. High level disinfectants
6. Multi drug resistant tuberculosis – detection and treatment
7. Infection control measures for ICU
8. Clinical manifestations and prevention of Varicella zoster

SHORT ANSWER 5 x 3 = 15 Marks

9. Settle plate method
10. Name three organisms spread by faeco oral route
11. Name three safe injection practices
12. Draw a neat labelled diagram of HIV
13. Name three gaseous disinfectants

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 22-May-2023

Time: Three Hours Max. Marks: 100 Marks

PHARMACOLOGY (RS-3)

Q.P. CODE: 3398

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. Classify antimicrobial agents. Write a detailed note on penicillin
2. Classify anticoagulants. Write a note on oral anticoagulants
   OR
   Classify antihypertensives. Write a note on peripheral vasodilators

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

3. Write the advantages and disadvantages of oral route of **drug** administration
4. Classify general anaesthetics giving one example each. Add a note on the pharmacokinetics of inhalation anaesthetics
5. Bland aerosols in respiratory care
   OR
   Note on thrombolytic agents
6. Classify Anti-tussive agents and its mode of action
7. Spironolactone – mode of action, indication and dose
8. Write a note on non-opioid analgesics giving examples
9. What are hypnotics? Write a note on benzodiazepines
10. Salbutamol – mode of action, indication and dose
    OR
    Captopril – mode of action, indication and dose
11. Different IV fluids
12. Digoxin – indication, dose and adverse **effects**

SHORT ANSWER 10 x 3 = 30 Marks

13. Name any three corticosteroids and their uses
14. Statins – **indications** and adverse effects.
15. Aminoglycosides – uses and side effects
16. Define Bioavailability
17. Name three drugs used in medical emergency
18. Enlist the first – line antitubercular drugs
19. Name any three Positive inotropic agents
20. Name any three Cephalosporins
21. Sodium nitroprusside – indication and adverse effect
22. Define pharmacokinetics

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 22-May-2023

Time: Three Hours | Max. Marks: 100 Marks

INTRODUCTION TO RESPIRATORY CARE TECHNOLOGY (RS2)

Q.P. CODE: 1239

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. **Spirometry & testing, flow volume loop.**

2. **Explain high flow & low flow systems in Oxygen Therapy devices.**

3. Fiberoptic bronchoscopy: Indications, contra-indications, monitoring and role of respiratory therapist

SHORT ESSAYS (Answer any Twelve) 12 x 5 = 60 Marks

4. Blood pressure monitoring
5. Breath sounds
6. Techniques of chest physiotherapy
7. Humidification of respiratory system
8. Hyperbaric oxygen therapy
9. ECG monitoring
10. Cardiopulmonary resuscitation
11. Endotracheal tube suctioning
12. End-tidal capnography
13. Indications and maintenance of chest drainage system
14. Isolation procedure
15. Write in detail on metered dose inhaler
16. Incentive Spirometry
17. Low-flow O2 delivery systems

SHORT ANSWERS (Answer any Ten) 10 x 2 = 20 Marks

18. Steps in hand-washing
19. Causes of tachycardia
20. Flow meters
21. Causes of metabolic acidosis
22. Venturi mask
23. Hazards of prolonged oxygen therapy
24. Acapella device
25. Contra-indications of chest PT
26. Uses of PEFR
27. Causes of respiratory alkalosis
28. Alarms in medical gas supply
29. Tracheostomy care

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 24-May-2023

Time: Three Hours Max. Marks: 80 Mark

MEDICINE RELEVANT TO RESPIRATORY CARE TECHNOLOGY (RS2)

Q.P. CODE: 1240

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. What do you mean by lung abscess? How do you manage a patient with lung abscess?
2. Explain hypertension. What are the treatment for hypertension?
3. Explain COPD.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. How do you treat occupational lung diseases ?
5. What is pulmonary tuberculosis ?
6. What do you mean by toxic inhalation?
7. **How do you treat Guillain – Barre** syndrome **?**
8. What do you mean by emphysema?
9. Explain the main respiratory problems in children.
10. How do you treat poisoning?
11. How do you treat status epilepticus?
12. What do you mean by type II respiratory failure?
13. What are the common fungal infections?

SHORT ANSWERS (Answer any Ten) 10 x 2 = 20 Marks

14. How do you diagnose atypical pneumonia?
15 What is tropical Eosinophilia?
16. What is bronchial asthma?
17. What **do you** mean by obesity ?
18. What are the complications with a person having obesity?
19. What do you mean by poliomyelitis?
20. What is diabetes mellitus?
21. What is AIDS?
22. What are the signs of respiratory failure?
23. **Name 3 inhalational corticosteroids**
24. What are the causes of COPD?
25. What are the signs of emphysema?

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 19-May-2023

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. Basic principles, indications, contraindications, technical aspects and set up intercostal drains and tubes.
2. Lung expansion therapy.
   OR
   Surgical airway devices – Indications, contraindications, procedures and complications.

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

3. Capnography.
4. Mallampatti classification with diagram.
5. Bronchoscopy – Indications, types, contraindication and complication.
   OR
   Handwashing techniques.
6. Endotracheal suctioning – Indications, contraindications and complications.
7. Write a note on percussors.
8. Extubation.
9. Write a note on Aerosol drug delivery systems.
10. Explain about Hyperbaric oxygen therapy.
    OR
    Obstructive and restrictive lung disease.
11. Bland aerosol therapy.
12. Central venous pressure monitoring.

SHORT ANSWER 10 x 3 = 30 Marks

13. Pre and post bronchodilator test.
14. Pulse oximeter.
15. Dalton's law of partial pressure.
16. Goals of oxygen therapy.
17. Parts of endotracheal tube.
18. Indications of cardiopulmonary exercise testing.
19. FRC, TV, IRV.
20. Atelectasis.
21. Oropharyngeal airway.
22. Glasgow coma scale.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 24-May-2023

Time: Three Hours | Max. Marks: 100 Marks

Medicine Relevant to Respiratory Technology (RS-3)

Q.P. CODE: 3360

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. Shock: Definition, classification, pathophysiology and general management.
2. Myasthenia Gravis. Explain in detail.
   OR
   Diffuse alveolar disease.

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

3. Gold guidelines of COPD.
4. Pulmonary embolism.
5. Ischemic stroke : Definition, risk factors and management.
   OR
   General management of Asthma.
6. Near drowning.
7. Differentiate hematemesis and Hemoptysis.
8. Kyphoscoliosis.
9. Lung volume reduction surgery.
10. Pleural effusion – pathogenesis, anatomic alteration and management.
    OR
    Respiratory failure and management.
11. Intercostal drain.
12. Viral pneumonia.

SHORT ANSWER 10 x 3 = 30 Marks

13. Clubbing.
14. General management of TB.
15. Atelectasis.
16. Grades of dyspnea.
17. Stable and unstable angina.
18. Risk factors in OSA.
19. Empyema.
20. Staging of lung cancer.
21. Flail chest.
22. Name any three adrenergic bronchodilators.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 23-Nov-2023

Time: Three Hours Max. Marks: 50 Marks

Applied Pathology (RS-3)

Q.P. CODE: 3396

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3396 and 3397 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Define ischaemic heart disease. Explain the pathology and complications of various types of ischaemic heart disease.
2. List the types of Chronic Obstructive Pulmonary disease. Add a note on Emphysema.

SHORT ESSAYS (Answer any Five) 5 x 5 = 25 Marks

3. Classification of anemia.
4. Explain the types and pathogenesis of hypertension.
5. Estimation of Hematocrit.
6. Pulmonary edema.
7. Discuss the causes and diagnosis of pleural effusion.
8. Define leukemia and add a note on blood picture in Acute myeloid leukemia.

SHORT ANSWER 5 x 3 = 15 Marks

9. Name three bleeding disorders.
10. Name three shape variation of red blood cell.
11. Types of cardiomyopathy.
12. Morphological features of chronic bronchitis.
13. **List causes of Neutrophilia**

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 23-Nov-2023

Time: Three Hours | Max. Marks: 50 Marks

Applied Microbiology (RS-3)

Q.P. CODE: 3397

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3396 and 3397 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Describe the layout of central sterile services department (CSSD) with special note on plan for instrument cleaning and sterilizing area. Add a note on its function.
2. List communicable viral infections that infections that infects healthcare workers in hospitals. Describe in detail about Hepatitis B virus infection and add a note on its prevention.

SHORT ESSAYS (Answer any Five) 5 x 5 = 25 Marks

3. Disinfection of instruments used in patient care.
4. HIV virus – Morphology and precautions to prevent infection.
5. Describe the morphology and mode of spread of Varicella – Zoster (V-Z) virus infection. Add a note on its prevention.
6. Blood culture for Salmonella Typhi infections.
7. Air sampling method.
8. Infections caused by faeco-oral route.

SHORT ANSWER 5 x 3 = 15 Marks

9. Vancomycin resistant Enterococi.
10. Morphology of Mycobacterium Tuberculosis.
11. Name three gaseous disinfectants.
12. Name three healthcare associated infections.
13. Name three pathogens causing catheter related urinary tract infections.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 02-Dec-2023

Time: Three Hours | Max. Marks: 100 Marks

Pharmacology (RS-3)

Q.P. CODE: 3398

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. Define hypertension. Classify antihypertensives. Explain the mechanism of action, side effects and contraindications of any one calcium channel blocker.
2. Enumerate broad spectrum antibiotics. Write the therapeutic uses and adverse effects of tetracyclines.

   OR

   Classify antianginal drugs. Write the mechanism of action, adverse effects and contraindications of propranolol.

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

3. Corticosteroids.
4. Third generation cephalosporins.
5. Define general anaesthetics. Classify them and explain the pharmacodynamics of inhalational anaesthetic agents.

   OR

   Spironolactone.
6. Write the advantages and disadvantages of oral route of drug administration.
7. Opioid analgesics.
8. Pharmacotherapy of cough.
9. Intramuscular route of drug administration.
10. Nitrous oxide.

    OR

    Bland aerosis in respiratory care.
11. Digoxin.
12. Thrombolytic agents.

SHORT ANSWER 10 x 3 = 30 Marks

13. Uses of adrenaline.
14. Name three antiarrhythmic drugs.
15. Mention three drugs used in the treatment of shock.
16. Name three H1 antihistaminic agents.
17. Classify antitubercular drugs.
18. Uses of furosemide.
19. Examples and uses of mucokinetic agents.
20. Uses of morphine.
21. What is first-pass metabolism?
22. Mechanism of action and use of Nifedipine.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 02-Dec-2023

Time: Three Hours Max. Marks: 100

INTRODUCTION TO RESPIRATORY CARE TECHNOLOGY (RS-2)

Q.P. CODE: 1239

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Write in detail on DLCO
2. Write a note on humidifiers
3. Write a note on Respiratory system examination

SHORT ESSAYS (Answer any Twelve) 12 x 5 = 60 Marks

4. Write a note on oxygen cascade
5. Write in detail on the hazards of oxygen therapy
6. Write in detail about chest topography
7. Write in detail on reservoir systems
8. Write a note on meter dose inhalers
9. Write a note on breathing exercises
10. Write a note on high flow systems
11. Write a note on the difference between AP view and PA view
12. Write a note on incentive spirometry
13. Write a note on retinopathy of prematurity
14. Write a note on conduction of heart
15. Write a note on normal breath sounds
16. Aerosol therapy
17. Assessment of vital signs

SHORT ANSWERS (Answer any Ten) 10 x 2 = 20 Marks

18. Hyperbaric oxygen therapy
19. Nebulizers
20. Colour coding of cylinders
21. Indications of oxygen therapy
22. ECG
23. Bronchoprovocation test.
24. LMA
25. Oxygen delivery devices
26. Bernoulli's principle
27. Abnormal breath sounds
28. Hand washing
29. GCS

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 05-Dec-2023

Time: Three Hours Max. Marks: 80

MEDICINE RELEVANT TO RESPIRATORY CARE TECHNOLOGY (RS-2)

Q.P. CODE: 1240

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Discuss etiopathogenesis, clinical features, investigations and management of hospital acquired pneumonia
2. Discuss etiopathogenesis, clinical features, investigations and management of bronchial asthma
3. ARDS – causes, clinical manifestation, diagnosis, score. Ventilator strategies and management

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Types of pneumothorax
5. Lung abscess
6. Complications of pulmonary tuberculosis
7. Hypoxemia
8. Haemoptysis and its complication
9. Cyanosis
10. Bronchitis
11. Myasthenia gravis
12. Pulmonary edema
13. Causes of pleural diseases

SHORT ANSWERS (Answer any Ten) 10 x 2 = 20 Marks

14. Complications of hypertension
15. Explain the clinical signs and symptoms related to obesity patient
16. Tidal volume
17. Causes of haemoptysis
18. Treatment of pneumothorax
19. Acute rhinitis
20. Clubbing
21. Occupational causes of asthma
22. Causes of pleural effusion
23. Guillain Barre syndrome
24. Tropical Eosinophilia
25. Poliomyelitis

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 02-Dec-2023

Time: Three Hours | Max. Marks: 100

INTRODUCTION TO RESPIRATORY CARE TECHNOLOGY (RS-2)

Q.P. CODE: 1239

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) — 2 x 10 = 20 Marks

1. Write in detail on DLCO
2. Write a note on humidifiers
3. Write a note on Respiratory system examination

SHORT ESSAYS (Answer any Twelve) — 12 x 5 = 60 Marks

4. Write a note on oxygen cascade
5. Write in detail on the hazards of oxygen therapy
6. Write in detail about chest topography
7. Write in detail on reservoir systems
8. Write a note on meter dose inhalers
9. Write a note on breathing exercises
10. Write a note on high flow systems
11. Write a note on the difference between AP view and PA view
12. Write a note on incentive spirometry
13. Write a note on retinopathy of prematurity
14. Write a note on conduction of heart
15. Write a note on normal breath sounds
16. Aerosol therapy
17. Assessment of vital signs

SHORT ANSWERS (Answer any Ten) — 10 x 2 = 20 Marks

18. Hyperbaric oxygen therapy
19. Nebulizers
20. Colour coding of cylinders
21. Indications of oxygen therapy
22. ECG
23. Bronchoprovocation test.
24. LMA
25. Oxygen delivery devices
26. Bernoulli's principle
27. Abnormal breath sounds
28. Hand washing
29. GCS

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 05-Dec-2023

Time: Three Hours Max. Marks: 80

MEDICINE RELEVANT TO RESPIRATORY CARE TECHNOLOGY (RS-2)

Q.P. CODE: 1240

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Discuss etiopathogenesis, clinical features, investigations and management of hospital acquired pneumonia
2. Discuss etiopathogenesis, clinical features, investigations and management of bronchial asthma
3. ARDS – causes, clinical manifestation, diagnosis, score. Ventilator strategies and management

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

4. Types of pneumothorax
5. Lung abscess
6. Complications of pulmonary tuberculosis
7. Hypoxemia
8. Haemoptysis and its complication
9. Cyanosis
10. Bronchitis
11. Myasthenia gravis
12. Pulmonary edema
13. Causes of pleural diseases

SHORT ANSWERS (Answer any Ten) 10 x 2 = 20 Marks

14. Complications of hypertension
15. Explain the clinical signs and symptoms related to obesity patient
16. Tidal volume
17. Causes of haemoptysis
18. Treatment of pneumothorax
19. Acute rhinitis
20. Clubbing
21. Occupational causes of asthma
22. Causes of pleural effusion
23. Guillain Barre syndrome
24. Tropical Eosinophilia
25. Poliomyelitis

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 02-Dec-2023

Time: Three Hours | Max. Marks: 100 Marks

Pharmacology (RS-3)

Q.P. CODE: 3398

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. Define hypertension. Classify antihypertensives. Explain the mechanism of action, side effects and contraindications of any one calcium channel blocker.
2. Enumerate broad spectrum antibiotics. Write the therapeutic uses and adverse effects of tetracyclines.

   OR

   Classify antianginal drugs. Write the mechanism of action, adverse effects and contraindications of propranolol.

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

3. Corticosteroids.
4. Third generation cephalosporins.
5. Define general anaesthetics. Classify them and explain the pharmacodynamics of inhalational anaesthetic agents.

   OR

   Spironolactone.
6. Write the advantages and disadvantages of oral route of drug administration.
7. Opioid analgesics.
8. Pharmacotherapy of cough.
9. Intramuscular route of drug administration.
10. Nitrous oxide.

    OR

    Bland aerosis in respiratory care.
11. Digoxin.
12. Thrombolytic agents.

SHORT ANSWER 10 x 3 = 30 Marks

13. Uses of adrenaline.
14. Name three antiarrhythmic drugs.
15. Mention three drugs used in the treatment of shock.
16. Name three H1 antihistaminic agents.
17. Classify antitubercular drugs.
18. Uses of furosemide.
19. Examples and uses of mucokinetic agents.
20. Uses of morphine.
21. What is first-pass metabolism?
22. Mechanism of action and use of Nifedipine.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 28-Nov-2023

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. Lung expansion therapy – Indications, contraindications and complications.
2. Write a short note on Humidification, indications, types and equipments.
   OR
   Positive airway pressure devices.

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

3. Endotracheal suctioning – Indication, contraindication and complication.
4. Algorithm of advanced cardiovascular life support.
5. Nebulizers – types and explain each.
   OR
   Intercostal drains and tubes – principle, indication and setup.
6. Chest compliance and resistance.
7. End tidal capnography.
8. Write a note on Intracorporeal membrane oxygenation.
9. Manual resuscitators – types, parts, indications and techniques.
10. Decannulation.
    OR
    Hazards of aerosol therapy.
11. Central venous pressure monitoring.
12. Physical oxygen analyzer.

SHORT ANSWER 10 x 3 = 30 Marks

13. Passive humidifier.
14. Oxygenation index.
15. Glasgow coma scale.
16. Lung volumes
17. General goals of airway clearance.
18. Complications of Bronchoscopy.
19. Abnormal breath sounds.
20. Hypokalemia.
21. Boyle’s law and Gay-lussac’s law.
22. Indications for tracheostomy.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Respiratory Care Technology Degree Examination – 05-Dec-2023

Time: Three Hours | Max. Marks: 100 Marks

Medicine Relevant to Respiratory Technology (RS-3)

Q.P. CODE: 3360

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. Asthma – Etiology, classification, diagnosis management.
2. ARDS (Acute Respiratory Distress Syndrome).
   OR
   Classification of drugs used in COPD.

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

3. Myasthenia gravis.
4. Cardiomyopathy.
5. Stroke.
   OR
   Pulmonary edema.
6. Cystic fibrosis.
7. Stable angina.
8. Pulmonary involvement in Rheumatoid Arthritis.
9. Types of pneumonia and management.
10. Pleural effusion.
    OR
    Polysomnography.
11. Pulmonary hypertension.
12. Pneumothorax.

SHORT ANSWER — 10 x 3 = 30 Marks

13. Metered dose inhaler therapy.
14. Side effects of cortico steroid therapy.
15. List any three antiarrhythmic drugs.
16. Types of snake envenomation.
17. Define shock and types.
18. Haemothorax.
19. Kyphoscoliosis.
20. Treatment of pulmonary edema.
21. Clinical features of stroke.
22. Causes of haemoptysis.

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