SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Time: 2.30 Hrs.

B.Sc. Allied Health Sciences Second Year Semester-III

March 2025 Examination

B.Sc. Respiratory Therapy

Paper – I

[Max. Marks: 80]

Applied Pathology & Microbiology

(Use separate answer booklet for Section A & B)

Section - A

Applied Pathology (40 Marks)

Q.P Code: K3795

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

LONG ESSAY

1 X 10 = 10 Marks

1. Define atherosclerosis, write briefly its risk factors, pathogenesis, morphology, clinical significance and prevention

SHORT ESSAY 3X 5 = 15 Marks

- 2. Classify leucocytes. Describe microscopic morphology of leucocytes with a diagram
- 3. Pathophysiology of left heart failure
- 4. Classify hemolytic anemia and write a note on its characteristic features

SHORT ANSWERS 5 X 3 = 15 Marks

- 5. Sudden cardiac death
- 6. Causes for aortic stenosis
- 7. Causes for restrictive cardiomyopathy
- 8. What is Leukemoid reaction and 3 causes
- 9. Name the clotting factors

Section – B Applied Microbiology (40 Marks) Q.P Code : K3796

(Use separate answer booklet for Section-B)

LONG ESSAY $1 \times 10 = 10 \text{ Marks}$

1. Enumerate the types of health care associated infection. Discuss in detail the risk factors and infection control practices to prevent catheter associated blood stream infection (3+3+4)

SHORT ESSAY

3 X 5 = 15 Marks

- 2. Define surgical site infection, its risk factors and infection control practices
- 3. Enumerate the types of Personal protective equipment's and its uses
- 4. Describe the Biomedical waste management

SHORT ANSWERS 5 X 3 = 15 Marks

- 5. List three modes of transmission of HIV infection
- 6. Mention three important elements of Standard precautions
- 7. List the Sources and modes of transmission of infection acquired by health care worker
- 8. Mention three diseases that spread by respiratory route
- 9. Mention the steps of hand hygiene

SOUAHU WOOLAND

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B.Sc. Allied Health Sciences Second Year (Semester-III)

March 2025 Examination B.Sc. Respiratory Therapy

Time: 2.30 Hrs. Paper – II

[Max. Marks: 80]

Introduction to Respiratory care Technology O.P Code: K3800

Q.P Code: K3800

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

LONG ESSAY $2 \times 10 = 20 \text{ Marks}$

- 1. Add a note on Assessment of Respiratory system
- 2. Write a brief note on Assessment of cardiovascular system

SHORT ESSAY $6 \times 5 = 30 \text{ Marks}$

- 3. Add a note on Blood pressure measurement and normal range.
- 4. Write a brief note on Topography of the heart
- 5. Add a note on examination of pericardium
- 6. Add a note on Neurological Examination
- 7. Add a note on Auscultation of respiratory system
- 8. Write a Signs & Symptoms of cardiovascular disease

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 9. Mention the Symptoms of COPD
- 10. Defined Hypertension
- 11. Defined Hypotension
- 12. Explain about Handwashing
- 13. Define Cardiothoracic ratio
- 14. Write the Accessory Muscles of Respiratory
- 15. Defined Pulsation
- 16. Write 3 Products of Respiration
- 17. Symptoms of Asthma
- 18. Mention the Cardiac sounds

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B.Sc. Allied Health Sciences Second Year (Semester-III)

March 2025 Examination B.Sc. Respiratory Therapy

Time: 2.00 Hrs. [Max. Marks: 40]

Applied Pharmacology

Q.P Code: K3810

 $\underline{LONG ESSAY} \qquad 1 X 10 = 10 Marks$

1. Classify the drugs used in Hypertension with examples. Write the mechanism of action, uses and adverse effects of Telmisartan

 $\underline{SHORT\ ESSAY}$ 3 X 5 = 15 Marks

- 2. Explain mechanism of action, uses and adverse effects of Dopamine
- 3. Explain mechanism of action, uses and adverse effects of Pentazocin
- 4. Write the merits and demerits of Oral route of Administration

SHORT ANSWERS 5 X 3 = 15 Marks

- 5. Give any three drugs used in Bronchial asthma
- 6. Mention the three uses and adverse effects of Clopidogrel
- 7. Write three uses and adverse effects of Lignocaine
- 8. Write the mechanism of action of Cephalosporin
- 9 Give the uses and adverse effects of Heparin

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(2021 -22 BATCH ONLY)

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH



(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year (Semester-III) March 2025 Examination B.Sc. Respiratory Therapy

Time: 2 Hrs. [Max. Marks: 40]

Applied Pharmacology

Q.P Code: K3810

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

Long essay 1x10=10 Marks

1. Classify cholinergic blocking drugs. Explain mechanism of action, uses and adverse effects of Atropine.

Short essay $3 \times 5 = 15 \text{ Marks}$

- 2. Explain the mechanism, uses and adverse effects of thiazides
 - 3. List the advantages and disadvantages of intravenous route.
 - 4. Explain the mechanism, uses and adverse effects of ergot alkaloids

Short answer $5 \times 3 = 15 \text{ Marks}$

- 5. Explain mechanism of action, and uses of streptokinase.
- 6. Write the treatment of anaphylactic shock
- 7. List three antiplatelet agents and write three uses
- 8. Mention three uses of pancuronium.
- 9. Mention three factors affecting bioavailability

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B.Sc. Allied Health Sciences Second Year (Semester-III)

March 2025 Examination B.Sc. Respiratory Therapy

Time: 2.30 Hrs. Paper – IV [Max. Marks: 80]

Medicine Relevant to Respiratory Care Technology O.P Code: K3820

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

LONG ESSAY $2 \times 10 = 20 \text{ Marks}$

- 1. Define ARDS , explain the pathophysiology , stages and management of ARDS
- 2. Define Sepsis & septic shock. add a note on SIRS criteria, explain pathogenesis, signs and symptoms with treatment

SHORT ESSAY $6 \times 5 = 30 \text{ Marks}$

- 3. Define the clinical features of poisoning
- 4. Discuss the ventilation perfusion mismatch in the type 1 respiratory failure
- 5. Briefly describe the diseases associated with obesity
- 6. Explain briefly about IHD
- 7. Define myasthenia gravis. Explain the pathophysiology of myasthenia gravis
- 8. Discuss the management of hypertension

SHORT ANSWERS 10 X 3 = 30 Marks

- 9. Define emphysema
- 10. Describe the clinical feature of bronchial asthma
- 11. Write a note on LRTI
- 12. Describe the risk factors of poliomyelitis
- 13. Describe the respiratory complication in children
- 14. Define hypertension
- 15. Describe the diagnosis of COPD
- 16. Define pre-eclampsia
- 17. Add a note on GINA guidelines
- 18. Define respiratory failure