

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

October 2023 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Time: 3 Hrs.

Paper – I

[Max. Marks: 100]

Applied Pathology & Microbiology

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

(Use separate answer booklet for Section A & B)

Section – A

Applied Pathology (50 Marks)

Q.P Code : J4135

Long Essay

2 X 10 = 20 Marks

1. Obstructive uropathy – definition, types and causes. Name two criteria for chronic renal failure
2. Define atherosclerosis. Discuss the risk factors, pathogenesis and morphology of atherosclerosis

Short Essay (Answer any Three)

3 X 5 = 15 Marks

3. Name three uses of renal dialysis
4. Causes and pathophysiology of acute renal failure
5. Aneurysm – define, types and complications
6. Pathogenesis of ischemic heart disease
7. Define cardiomyopathy. Mention the types of cardiomyopathy

Short Answers (Answer any Five)

5 X 3 = 15 Marks

8. Write a note on prosthetic valves
9. Mention the types of hypertension
10. List out 2 criteria for chronic renal failure
11. List three causes of chronic glomerulonephritis
12. Causes of end stage renal disease
13. Ventricular septal disease
14. Tetralogy of fallot

Section – B

Applied Microbiology (50 Marks)

Q.P Code : J4136

(Use separate answer booklet for Section-B)

Long Essay

2 X 10 = 20 Marks

1. Describe the source, mode of transmission, clinical features and laboratory diagnosis of Bacillary dysentery. (1+1+2+3+3)
2. Enumerate the organisms transmitted by faeco oral route. Describe the clinical features and laboratory diagnosis of Enteric fever. (2+3+5)

Short Essay (Answer any Three)

3 X 5 = 15 Marks

3. Describe the clinical features and Laboratory diagnosis of Pneumococci. (2.5+2.5)
4. Describe the clinical features and laboratory diagnosis of Hepatitis B virus. (2.5+2.5)
5. Describe the clinical features and laboratory diagnosis of *Haemophilus influenza*. (2.5+2.5)
6. OT surveillance
7. Classify disinfectants with one example and its use.

Short Answers (Answer any Five)

5 X 3 = 15 Marks

8. Draw a neat and labelled diagram of Human immunodeficiency virus (HIV).
9. Enumerate the clinical features of Pulmonary tuberculosis.
10. Describe the laboratory diagnosis of *Giardia Lamblia*.
11. Draw a neat labelled diagram of fertilized egg of round worm.
12. Enumerate the components of Standard precautions.
13. Enumerate the personal protective equipment and disinfectant used in blood spill management.
14. Differences between oral and live Polio vaccines.

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)



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

October 2023 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Time : 2 Hrs.

[Max. Marks : 40]

SUBJECT : PHARMACOLOGY

Q.P Code : J4150

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

Long Essay

1 X 10 = 10 Marks

1. a. Classify drugs used in hypertension
- b. Explain mechanism of action, uses and adverse effects of losartan

Short Essay (Answer any Three)

3 X 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of nitroglycerine
3. Explain mechanism of action, uses and adverse effects of pantoprazole
4. Explain mechanism of action, uses and adverse effects of amlodipine
5. Explain mechanism of action, uses and adverse effects of ciprofloxacin

Short Answers (Answer any Five)

5 X 3 = 15 Marks

6. Mention three uses of frusemide
7. Mention three disinfectants and write three uses
8. Mention three drugs used in anaphylactic shock
9. List three uses and three adverse effects of prednisolone
10. List three uses of cetirizine
11. Name three drugs used in surgical prophylaxis

* * *

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

October 2023 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

PAPER-IV

Medicine relevant to OT Technology

Q.P Code : J4160

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

Long Essay

2 X 10 = 20 Marks

1. What is shock? What are the different types of shock, write briefly on each type of shock?
2. What is chronic renal failure? What is the treatment of chronic renal failure?

Short Essay (Answer any Six)

6 X 5 = 30 Marks

3. Chronic renal failure etiopathogenesis
4. Difference between crystalloids and colloids
5. What is epilepsy? Write about the types of epilepsy
6. Chronic liver failure signs and symptoms
7. What are the causes of cerebrovascular events ?
8. What are the fasting guidelines in pediatric patients
9. What is stroke? What is the etiopathogenesis
10. Total body water and its components

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

11. APGAR score- parameters checked
12. Name 3 colloids
13. Name 3 drugs used in epilepsy
14. Write 3 symptoms of a patient with liver disease
15. Normal potassium levels
16. Formulas to calculate size of ETT in pediatrics
17. Name 3 crystalloids
18. 3 items kept for neonatal resuscitation
19. Write 3 investigations done in patient with CVA
20. Name 3 antihypertensive drugs
21. 3 signs of chronic liver failure
22. Fasting guidelines for milk in infants

*** * ***



Sri Devaraj Urs ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

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

October 2023 Examination

B.Sc. Anesthesia and Operation theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject : Applied Pathology & Microbiology

Section – A

Applied Pathology (40 Marks)

Q.P Code : K4135

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

(Use separate answer booklet for Section A & B)

Long Essay

1 X 10 = 10 Marks

1. Define acute renal failure ,discuss causes, ,pathogenesis and effects of acute renal failure

Short Essay

3 X 5 = 15 Marks

2. Name three uses of renal dialysis
3. Aneurysm – define, types and complications
4. Mention causes and clinical manifestation of obstructive uropathy

Short Answers

5 X 3 = 15 Marks

5. Write a note on prosthetic valves
6. List out 2 criteria for chronic renal failure
7. Risk factors for atherosclerosis
8. Mention cardiac markers for myocardial infarction
9. Tetralogy of fallot

Section – B

Applied Microbiology (40 Marks)

Q.P Code : K4136

(Use separate answer booklet for Section-B)

LONG ESSAY

1 X 10 = 10 Marks

1. Enumerate the pathogens causing respiratory infections. Describe the clinical features and laboratory diagnosis of Pulmonary tuberculosis. (2+3+5)

SHORT ESSAY

3 X 5 = 15 Marks

2. Describe the laboratory diagnosis of Enteric fever.
3. Describe the clinical features and laboratory diagnosis of Pneumococcal pneumoniae (2.5+2.5)
4. What is the mode of transmission and laboratory diagnosis of Hepatitis C virus.(2.5+2.5)

SHORT ANSWERS

5 X 3 = 15 Marks

5. Draw a labelled diagram of trophozoite and cyst of *Giardia lamblia*.
6. Mention the three measures to prevent blood borne infections.
7. Mention the three uses of Aldehydes.
8. Describe the laboratory diagnosis of round worm.
9. Draw a neat labelled diagram of Human immunodeficiency virus.



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

October 2023 Examination

B.Sc. Anesthesia and Operation theatre Technology

Time : 1.30 Hrs.

[Max. Marks : 40]

Subject : Applied Pharmacology

Q.P Code : K4150

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

1 X 10 = 10 Marks

1. Classify drugs used in angina pectoris. Explain mechanism of action. uses and adverse effects of nitroglycerine.

SHORT ESSAY

3 X 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of amoxicillin
3. Explain the mechanism of action, uses and adverse effects of Ciprofloxacin
4. Explain the uses and adverse effects of calcium channel blockers

SHORT ANSWERS

5 X 3 = 15 Marks

5. Mechanism of action and uses of Ondansetron
6. List three uses of frusemide
7. Mention three uses of disinfectants
8. Mention three drugs used in anaphylactic shock.
- 9 Explain the mechanism of action and write two uses of salbutamol

*** * ***

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

October 2023 Examination

B.Sc. Anesthesia and Operation Theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject : Medicine Relevant to Anesthesia and Operation Theatre Technology

Q.P Code : K4160

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. What is cardiogenic shock? What are the causes? What is the initial treatment?
2. How will you set the table for a pediatric Patient undergoing Herniotomy.

SHORT ESSAY

6 X 5 = 30 Marks

3. Write a note on etiopathogenesis of Chronic renal failure.
4. Differences between crystalloids and colloids.
5. What is epilepsy? Write about the types of epilepsy.
6. Chronic liver failure - signs and symptoms.
7. What are the fasting guidelines in pediatric patients?
8. What is stroke? What is the Etiopathogenesis?

SHORT ANSWERS

10 X 3 = 30 Marks

9. What is the maximum and minimum scores in APGAR?
10. Name 3 foods to be avoided in patients with CRF.
11. Name 3 medicines a patient with CVA will be prescribed.
12. What is the Normal Serum sodium level?
13. Size of IV cannula used in pediatric patients.
14. What is the size of laryngoscope blade to be kept ready for pediatric patient?
15. What is the Total body Water in an adult? What percentage of the weight is total body water?
16. Name 3 diseases of the liver.
17. Composition of Ringers lactate.
18. 3 uses of colloids

*** * ***