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

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

March 2022 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)

O.P Code: J4135

#### LONG ESSAY

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

- 1. Define atherosclerosis. What are the risk factors and etiopathogenesis of atherosclerosis?
- 2. End stage renal disease- definition, causes, effects and role of dialysis.

#### SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

- 3. Describe aneurysm. Write in detail about pathogenesis of aneurysm
- 4. Classify renal calculi. Describe pathogenesis of renal calculi
- Etiopathogenesis of ischaemic heart disease.
- 6. Renal dialysis.
- 7. Tetralogy of fallot.

#### SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

- 8. Name three risk factors of hypertension
- 9. Enumerate causes for renal calculi
- 10 What are the uses of renal dialysis
- 11. Name three congenital heart disease
- 12. Name three Complications of aneurysm
- 13 Name three valvular heart disease
- 14. Classify primary cardiomyopathies.

#### Section - B

Applied Microbiology (50 Marks)

Q.P Code: J4136

(Use separate answer booklet for Section-B)

#### LONG ESSAY

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

- Enumerate the pathogens causing respiratory infections. Describe in detail the pathogenesis and laboratory diagnosis of tuberculosis. (2+3+5)
- 2. Define disinfection. Classify disinfectants. Add a note on disinfectant usage in the hospital.(2+3+5)

#### SHORT ESSAY (Answer any three)

3 X 5= 15 Marks

- 3. Laboratory diagnosis of cholera.
- 4. Laboratory diagnosis of HIV.
- Describe the infection control practices to prevent transmission of infections by faeco-oral route among health care workers
- 6. Microbiological surveillance and sampling in Operation theatre.
- 7. Describe the clinical manifestations and laboratory diagnosis of round worm infection.

#### SHORT ANSWERS (Answer any five)

- 8. Needle stick injury
- 9. Mention the three viruses transmitted by blood.
- 10. Name any three gram negative bacilli.
- 11. Name 4 water borne pathogens.
- 12. Name three infections caused by Pneumococci.
- 13. Draw a labelled diagram of trophozoite and cyst of Giardia lamblia
- 14. Hepatitis B vaccines

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

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B.Sc. Anesthesia & Operation Theatre Technology

Time: 3 Hrs.

Paper - II

[Max. Marks: 100]

Introduction to OT Technology

Q.P Code: J4140

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

- 1 Define day care anaesthesia. Write in detail about specific discharge criteria for patient undergoing day care surgery.
- 2 Collection & storage of blood. Write in detail

#### Short essay (Any ten)

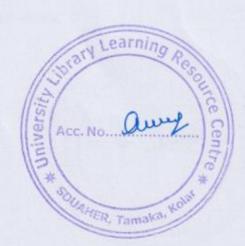
 $10 \times 5 = 50 \text{ Marks}$ 

- 3 Prone position
- 4 Effects of positioning in obese patients
- 5 Describe intraoperative capnography monitoring.
- 6 Describe patient monitoring after recovery from general anaesthesia
- 7 OT preparation for laser surgery
- 8 Describe surgical fire heat sources and its prevention
- 9 Precautions while handling HIV positive patient in OT
- 10 Treatment and disposal of Biomedical wastes
- 11 Universal precautions
- 12 Surgical drapes
- 13 Brains circuit
- 14 Sterilizing anaesthesia circuits

#### Short Answers (Any ten)

10 X 3 = 30 Marks

- 15 High lithotomy
- 16 Ryle's Tube
- 17 Uses of pulse oximeter
- 18 Factors affecting ETCO2
- 19 Precautions operating room hazards
- 20 Fine triangle
- 21 Mention blood borne pathogens
- 22 Biomedical wastes disposed in black bag
- 23 Floor cleaning
- 24 Surgical instruments used for tonsillectomy
- 25 Indications used in soda lime
- 26 Importance of consent



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# B.Sc. Allied Health Sciences Second Year (Semester-IV) March 2022 Examination B.Sc. Anesthesia & Operation Theatre Technology

Time: 2 Hrs.

[Max. Marks: 40]

#### PHARMACOLOGY

Q.P Code: J4150

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

Long e	ssa	y			$1 \times 10 = 10 \text{ Marks}$
	1.	a. Classify	drugs used in hyperte	ension	
		h Evnlain	mechanism of action	uses and adverse effect	s of raminril2+2+2

## Short essay (Answer any three)

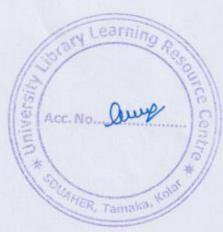
 $3 \times 5 = 15$  Marks

- 2. Explain mechanism of action, uses and adverse effects of third generation cephalosporins (2+2+1)
- 3. Explain mechanism of action, uses and adverse effects of pantoprazole (2+2+1)
- 4. Explain mechanism of action, uses and adverse effects of glimepiride (2+2+1)
- 5. Explain mechanism of action, uses and adverse effects of ciprofloxacin (2+2+1)

## Short answer (Answer any five)

 $5 \times 3 = 15$  Marks

- 6. Mention three antiseptics and write three uses
- 7. Mention two uses and one adverse effect of prednisolone
- 8. List three drugs from different groups used in bronchial asthma
- 9. Mention three second generation antihistaminics
- 10. Mention three uses of amikacin
- 11. Mention three drugs used in vomiting



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

March 2022 Examination

# B.Sc. Anesthesia & Operation Theatre Technology

Time: 2.30 Hrs.

#### PAPER-IV

# Medicine relevant to OT Technology

Q.P Code: J4160

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

#### Long Essay

2X10=20 Marks

[Max. Marks: 80]

- Define and classify shock. Describe in details about cardiogenic shock
- Classify intravenous fluids. Write a note on colloids

#### Short Essay (Answer any Six)

6X5=30 Marks

- 3. Management and complications of cerebrovascular accident
- 4. Liver function test
- 5. Etiopathogenesis, clinical manifestations chronic kidney disease
- 6. Write a briefly about Neonatal resuscitation
- 7. Causes and management of hyperkalemia
- 8. Metabolic acidosis
- 9. Hydroxyethyl starch indication, advantages & disadvantages
- 10. Premedications of pediatric patient

#### Short Answers (Answer any ten)

10X3=30 Marks

- 11. Hemodialysis
- 12. Furosemide, its uses
- 13. Renal function test
- 14. Risk factors of stroke
- 15. Jackson Rees breathing circuit
- 16. Cause of cirrhosis of liver
- 17. APGAR score
- 18. composition of intracellular and extracellular fluids
- 19. management of hypovolemia
- 20. hypoxemia
- 21. Ringer lactate
- 22. Hepatic encephalopathy

