



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

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

March 2024 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. Define ischemic heart disease. What are the risk factors, types and pathophysiology of IHD
2. End stage renal diseases. Write a note on renal dialysis

Short Essay (Answer any Three)

3 X 5 = 15 Marks

3. Classify congenital heart disease
4. List out the renal calculi in detail
5. Define hypertension . note on risk factor
6. Uses of renal dialysis
7. Discuss about cardiac hypertrophy and types

Short Answers (Answer any Five)

5 X 3 = 15 Marks

8. Write a note on prosthetic valves
9. Types of cardiomyopathy
10. List out 2 criteria for chronic renal failure
11. Classify aneurysm
12. Causes of obstructive uropathy
13. Mention cardiac markers /enzymes for myocardial infarction
14. Describe the components of atherosclerotic plaque

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. Enumerate the pathogens transmitted by faeco oral route. Describe the clinical features and laboratory diagnosis of Enteric fever. (2+3+5)
2. Enumerate the pathogens causing respiratory tract infections. Describe the clinical features and laboratory diagnosis of Pulmonary tuberculosis.(2+3+5)

Short Essay (Answer any Three)

3 X 5 = 15 Marks

3. Segregation and disposal of Biomedical waste.(2.5+2.5)
4. Describe the clinical features and laboratory diagnosis of Varicella zoster (2.5+2.5)
5. Laboratory diagnosis of Human immunodeficiency virus.
6. Describe the clinical features and laboratory diagnosis of Pneumococcal pneumoniae.(2.5+2.5)
7. What is the mode of transmission and laboratory diagnosis of Hepatitis C virus infection.(2.5+2.5)

Short Answers (Answer any Five)

5 X 3 = 15 Marks

8. Draw a labeled diagram of trophozoite and cyst of *Giardia lamblia*.
9. Enumerate the components of Standard precautions.
10. Describe the prophylaxis of Hepatitis B virus infection.
11. Differences between oral and live Polio vaccine
12. Five moments of Hand hygiene.
13. Blood spill management.
14. Describe the three uses of Aldehydes.



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 anesthesia. Write in detail about specific discharge criteria for patient undergoing day care anesthesia.
2. Collection and storage of blood. Write in detail

Short Essay (Answer any Ten)

10 X 5 = 50 Marks

3. Sterilizing anesthesia circuits
4. Surgical steps of abdominal hysterectomy
5. Preparation of patient coming for laparotomy.
6. Airway fire
7. Universal precautions
8. Pulse oximeter
9. Precautions to be taken to avoid electrical shock
10. Bains circuit
11. OT preparation for laser surgery
12. Prone position
13. Intra operative capnography monitoring
14. Precautions while handling HIV positive patient in OT

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

15. High lithotomy
16. Ryle's tube
17. Factors affecting ETCO₂
18. Precautions to be taken for preventing operating room hazards
19. Biomedical waste disposed in black bin
20. Surgical instruments used for tonsillectomy
21. Informed consent
22. Intravenous blood pressure monitoring
23. Babcock
24. Uses of soda lime
25. Complications of hypothermia
26. Mention the immediate actions after needle stick injury

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March 2024 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. Classify drugs used in angina pectoris. Explain mechanism of action, uses and adverse effects of nitroglycerine.

Short Essay (Answer any Three)

3 X 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of enalapril
3. Explain mechanism of action, uses and adverse effects of ranitidine
4. Explain mechanism of action, uses and adverse effects of insulin
5. Explain mechanism of action, therapeutic uses and adverse effects of amoxicillin

Short Answers (Answer any Five)

5 X 3 = 15 Marks

6. Mention two uses and one adverse effect of amikacin
7. Mention three antiseptics and write three uses
8. List three drugs from different groups used in bronchial asthma
9. Explain mechanism of action and two uses of mannitol
10. List three anti-emetics and therapeutic uses.
11. Therapeutic uses of Metronidazole

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

March 2024 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 septic shock? What are the causes? How is it diagnosed?
2. What is Chronic Liver Disease? What is the Etiopathogenesis, diagnosis and treatment?

Short Essay (Answer any Six)

6 X 5 = 30 Marks

3. What are the fasting guidelines in pediatric patients?
4. What are the advantages and disadvantages of colloids?
5. What are the different body compartments and how much Water is there in each compartment.
6. Chronic liver failure - Etiopathogenesis
7. What are the treatment options in a Patient with CRF?
8. How will you set the table for pediatric patient with FB Nose?
9. What are the steps of neonatal resuscitation?
10. What is epilepsy? What are the medications used in Treatment of Epilepsy.

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

11. Haemodialysis.
12. Types of IV infusion Sets used in pediatric.
13. What precautions to be taken in a patient with Chronic renal failure undergoing dialysis?
14. 3 symptoms in patient with Chronic liver disease.
15. NPO Guidelines for Formula Milk in Pediatrics
16. Name 3 types of convulsions.
17. What are the 2 types of CVA?
18. Size of tube for neonatal resuscitation.
19. Composition of ringer lactate.
20. Hetastarch.
21. Normal level of potassium.
22. Size of Cannula in infant.

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