

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

March 2021 Examination

B.Sc. 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 Hypertension. Write the Clinical classification and describe its etiopathogenesis
2. Define Ischemic heart disease. Describe its pathophysiology and complications

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Describe etiopathogenesis of obstructive uropathy
4. Complications of aneurysms
5. Describe the pathophysiology of atherosclerosis
6. What is valvular heart disease. Describe pathogenesis of mitral stenosis
7. Lab diagnosis of acute renal failure

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Types of cardiomyopathy
9. Name three laboratory investigation for ischemic heart disease
- 10 Ventricular Septal Defect
11. Tetralogy fallot
12. Name three renal calculi
- 13 List three uses of renal dialysis
14. Mention three complications of aneurysm

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. List the viruses that can cause infections in Health care workers. Describe in detail about Hepatitis B infection and add a note on prophylaxis. (3+3+4)
2. Define Disinfection. Classify disinfectants. Describe in detail OT sterilization. (2+3+5)

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Laboratory diagnosis of Herpes simplex virus
4. Blood spill management.
5. Biomedical Waste management.
6. Laboratory diagnosis of Pneumococci
7. Mention the risk factors and preventive measures of Catheter associated urinary tract infection.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Needle stick injury
9. Name three DNA viruses
10. Name three Personal Protective Equipments.
11. Mention three gaseous disinfectants
12. Draw a neat labelled diagram of Ascaris egg
13. Five moments of hand hygiene.
14. Name four water borne pathogens

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

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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 Name different types of surgical position s describe lithotomy position and its concerns.
- 2 What are blood components write there uses.

Short essay (Any ten)

10 X 5 = 50 Marks

- 3 Reverse Trendelenburg position
- 4 Describe intraoperative non invasive blood pressure monitoring
- 5 Methods of confirming position of endotracheal tubes
- 6 Intraoperative temperature monitoring
- 7 Operation theatre preparation for laser surgeries
- 8 Airway fire
- 9 Cleaning and disinfection of operation theatre after a HIV positive case
- 10 Universal precautions
- 11 Blood transfusion reactions
- 12 Packing instruments
- 13 Appendectomy steps
- 14 Magill's circuit

Short Answers (Any ten)

10X3=30 Marks

- 15 Four basic intraoperative monitors
- 16 Uses of pulse oximeter
- 17 Factors affecting ETCO2
- 18 Mention cardiovascular system monitoring methods
- 19 Complications of hypothermia
- 20 Fire triangle
- 21 Procedures suitable for day care surgery
- 22 Disease transmitted through blood transfusion
- 23 Allis forceps
- 24 Gases used for laparoscopic inflation
- 25 Uses of bain circuit
- 26 Importance of consent



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

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B.Sc. 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 × 10 = 10 Marks

1. a. Classify betalactam antibiotics ----- 4
- b. Explain mechanism of action, uses and adverse effects of ceftriaxone -----2+2+2

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of frusemide (2+2+1)
3. Explain mechanism of action, uses and adverse effects of ranitidine (2+2+1)
4. Explain mechanism of action, uses and adverse effects of gentamicin (1.5+2+1.5)
5. Explain mechanism of action, uses and adverse effects of insulin (2+1.5+1.5)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Mention **three** uses of antiseptics
7. List **three** uses and **three** adverse effects of prednisolone
8. Mention **three** bronchodilators
9. List **three** uses of cetirizine
10. Mention **three** uses of nitroglycerine
11. Mention **three** uses of clonidine



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

Long Essay

2X10=20 Marks

1. What is the importance of preoperative visit in a pediatric patient? Describe anaesthesia table arrangement for a 3 year old coming for inguinal hernia repair surgery
2. Classify intravenous fluids. Write a note on colloids

Short Essay (Answer any Six)

6X5=30 Marks

3. Define shock write briefly about septic shock
4. Signs and symptoms of hyponatremia. How to treat it
5. Etiopathogenesis, clinical features and management of cerebrovascular accident
6. Composition of intra vascular and extra vascular fluid
7. Neonatal resuscitation
8. Etiopathogenesis, clinical features and management of chronic kidney disease
9. Composition of normal saline
10. Metabolic acidosis

Short Answers (Answer any ten)

10X3=30 Marks

11. Dopamine
12. Cause of cirrhosis of liver
13. Dialysis
14. Postoperative shivering
15. Parts of laryngoscope
16. Management of hepatic encephalopathy
17. Hypothermia in newborn
18. Causes of hyperkalemia
19. APGAR score
20. Uses of hydroxyethyl starch.
21. Hypoxemia
22. Normal values of serum electrolytes.



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