



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

March 2023 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Paper – I

[Max. Marks: 100]

Time: 3 Hrs.

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. Obstructive uropathy
4. Classify congenital heart disease. Describe in detail Ventricular septal defect.
5. Describe the pathophysiology of heart failure
6. Enumerate the risk factors for atherosclerosis
7. Describe the acute renal failure

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Types of cardiomyopathy
9. Lab diagnosis of chronic heart failure
10. Ventricular Septal Defect
11. List three uses of renal dialysis
12. Name three conditions causing right to left shunt
13. List three renal stones types
14. Mention three complications of artificial valves

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. Define nosocomial infection. Add a note on common types of health care associated infections. (2+8)
2. Define Disinfection. Classify disinfectants. Describe in detail OT sterilization. (2+2+6)

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Lab diagnosis of Mycobacterium tuberculosis-
4. Sampling methods applied in an outbreak of MRSA
5. Name the infections transmitted to health care workers by blood. Mention the preventive measures.
6. Laboratory diagnosis of cholera.
7. Blood spill management.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Needle stick injury
9. Polio vaccines
10. Name any three standard precautions
11. Name 4 water borne pathogens.
12. Widal test
13. Draw a labelled diagram of trophozoite and cyst of Giardia lamblia
14. Name the 3 causative agents of respiratory tract infections among health care workers.



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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 Describe OT hazards and its management
- 2 Surgical table setting for open cholecystectomy

Short essay (Any ten)

10 X 5 = 50 Marks

- 3 Effects of positioning in obese patients
- 4 Describe methods of monitoring respiratory system
- 5 Intra operative temperature monitoring
- 6 Enlist the preventive measures to avoid needle stick injuries
- 7 Precautions to be taken to avoid electrical shock
- 8 Airway fire
- 9 Radiation exposer in OT
- 10 Cleaning and disinfection of OT after HIV positive case
- 11 Drugs preferred in daycare surgery under general anaesthesia
- 12 Non immunological blood transfusion reaction
- 13 Preparation of patient coming for laparotomy
- 14 Magill's circuit

Short Answers (Any ten)

10 X 3 = 30 Marks

- 15 Concerns of lithotomy
- 16 Precaution while attaching ECG electrodes
- 17 Fallacies while monitoring saturation
- 18 How do you attach blood pressure cuff
- 19 Intraoperative temperature monitoring
- 20 Personal protective equipment's
- 21 Steps in using fire extinguisher
- 22 Indication for blood transfusion
- 23 Deaver's retractors
- 24 Colour coding of vaporizers
- 25 Name blood components
- 26 Uses of soda lime

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(A DEEMED TO BE UNIVERSITY)



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

March 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 × 10 = 10 Marks

1. a. Classify drugs used in hypertension 4
- b. Explain mechanism of action, uses and adverse effects of enalapril 2+2+2

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of ceftriaxone (2+2+1)
3. Explain mechanism of action, uses and adverse effects of omeprazole (2+2+1)
4. List the uses and adverse effects of prednisolone (2.5+2.5)
5. Explain mechanism of action, uses and adverse effects of metronidazole (2+2+1)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Mention **three** antiseptics and write **three** uses
7. Mention **two** uses and **one** adverse effect of insulin
8. List **three** drugs from different groups used in bronchial asthma
9. List **three** uses of cetirizine
10. Mention **three** uses of ciprofloxacin
11. Mention **three** betalactamase inhibitors

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

Long Essay

2X10=20 Marks

1. Define and classify shock. Describe hypovolemic shock
2. Discuss composition of intracellular and extracellular fluids, signs, symptoms and treatment of hyperkalemia

Short Essay (Answer any Six)

6X5=30 Marks

3. Composition, uses of ringer lactate
4. neonatal resuscitation
5. Etiopathogenesis and composition of cirrhosis
6. Etiopathogenesis and management of stroke
7. Briefly note on dialysis
8. Jackson Rees breathing circuit
9. Renal function test
10. Paediatric anaesthetic table arrangement

Short Answers (Answer any ten)

10X3=30 Marks

11. Dopamine – Indication and uses
12. Classify IV fluids
13. Fasting guidelines for pediatric patients
14. Hepatic encephalopathy
15. postoperative vomiting
16. APGAR Score
17. Hypoxemia
18. Management of epilepsy
19. Drugs kept in neonatal resuscitation trolley
20. Parts of laryngoscope
21. Complications of cirrhosis
22. Causes of renal failure.