

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

September 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)

Q.P Code : J3095

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the etiopathogenesis and classification of thalassemia
2. Define Pneumoconiosis. Describe etiopathogenesis, clinical feature and complications of silicosis

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Classify anemia based on its etiological factors
4. Describe the blood picture in Chronic myeloid leukemia
5. Define COPD. Classify emphysema with a diagram
6. Write the steps in coagulation cascade
7. Describe pathogenesis and clinical features of pleural effusion

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Write three causes for lymphocytosis
9. Write three RBC causes for macrocytic anemia
10. What three test used to evaluate anemia
11. Name three granulocytes.
12. Write three test to evaluate clotting factors
13. Draw a microscopic diagram of asbestos body
14. What is Exudate?

Section – B

Applied Microbiology (50 Marks)

Q.P Code : J3096

(Use separate answer booklet for Section-B)

LONG ESSAY

2X10=20 Marks

1. Discuss the measures taken to control the infections in health care settings.
2. Define Sterilization. Classify the sterilization methods and discuss in detail about dry heat sterilization (2+2+6)

SHORT ESSAY. (Answer any three)

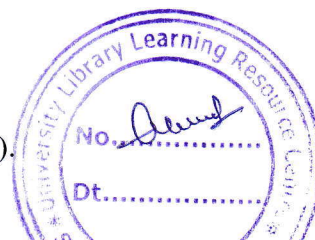
3X5=15Marks

3. Enumerate halogen disinfectants. Describe the mechanism of action and its uses
4. Microbiological Surveillance in OT
5. Methicillin Resistant Staphylococcus Aureus. (MRSA)
6. Gaseous sterilization
7. HEPA filters

SHORT ANSWERS (Answer any five)

5X3=15 Marks

8. Disinfection of patient care unit (Any three methods).
9. Ethyl alcohol.
10. Fumigation
11. Five moments of hand hygiene
12. Enumerate bacteria causing nosocomial infection.
- 13 Prevention of catheter associated blood stream infections (any three measures).
14. Mention methods of testing disinfectants





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

B.Sc. Allied Health Sciences Second Year (Semester-III)
September 2022 Examination

B.Sc. Anesthesia & Operation Theatre Technology

[Max. Marks : 100]

Time : 3 Hrs.

Paper-II

Introduction to OT Technology

Q.P Code : J3100

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

Long Essay

2X10=20 Marks

1. Define sterilization. Describe in detail about sterilization by heat.
2. Mention various intravenous induction agents. Describe in detail about propofol

Short Essay (Any ten)

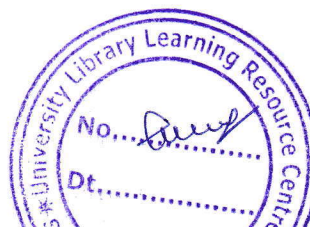
10X5=50 Marks

3. Chemical Sterilization
4. Sevoflurane
5. Oxygen therapy devices
6. Laryngeal mask airway
7. Local Anaesthetic systemic toxicity
8. Ketamine
9. Absorbable & Non-absorbable suture materials
10. Color coding for segregation of biomedical wastes. Describe in detail
11. Personal protective measures taken in operation theatre for surgery on a HIV positive patient
12. Microbial control methods of sterilization
13. Moist heat sterilization
14. Hydrogen peroxide

Short Answers (Any ten)

10X3=30 Marks

15. Mention types of autoclaving
16. Methods used in sterilizing non-critically contaminated equipments
17. Plasma gas sterilization
18. Biomedical wastes discarded in black bag
19. Neat labelled diagram of airway
20. Prolene
21. Uses of skin staples
22. Classify local anaesthetics
23. Types of suture materials with examples
24. Triad of general anaesthesia
25. Glutaraldehyde
26. Tyndalization



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B.Sc. Allied Health Sciences Second Year (Semester-III)
September 2022 Examination
B.Sc. Anesthesia & Operation Theatre Technology

Time : 2 Hrs.

[Max. Marks : 40]

SUBJECT : PHARMACOLOGY

Q.P Code : J3110

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

Long essay

1 × 10 = 10 Marks

1. a. Classify adrenergic receptor blockers 4
b. Explain mechanism of action, uses and contraindications to propranolol 1+3+2

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Mention **five** types of antagonism with examples (5)
3. List the advantages and disadvantages of halothane (2.5+2.5)
4. Explain mechanism of action, uses and adverse effects of pancuronium (2+1+2)
5. Explain mechanism of action, uses and adverse effects of aspirin (1.5+2.5+1)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Mention **three** uses of morphine
7. Explain mechanism of action and write **two** uses of neostigmine
8. Mention **three** techniques of lignocaine administration with type of surgery done
9. Mention **two** colloids and write **one** use
10. Explain **three** uses of clonidine
11. Mention **three** uses of diazepam





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B.Sc. Allied Health Sciences Second Year (Semester-III)
September 2022 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

PAPER-IV

Medicine relevant to OT Technology

Q.P Code : J3120

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

Long Essay

2X10=20 Marks

1. Define Bronchial Asthma. Describe perioperative complications and treatment of bronchial asthma
2. Mention physiological changes in pregnancy. Describe anaesthetic management of emergency cesarean section

Short Essay (Any Six)

6X5=30 Marks

3. Define hypertension. Classify hypertension. Describe its complications.
4. Describe etiopathogenesis and treatment of diabetes mellitus.
5. Diabetic ketoacidosis
6. Supine hypotension syndrome
7. Diagnosis and treatment of perioperative myocardial ischemia
8. Classification and etiopathogenesis of obesity
9. Define chronic bronchitis. Describe pathophysiology of chronic bronchitis
10. Perioperative complications and management of anemia

Short Answers (Any ten)

10X3=30 Marks

11. Insulin
12. β Blockers
13. treatment of hypoglycemia
14. Complications of Diabetes Mellitus
15. Risk factors of obesity
16. Hypertensive crisis
17. Perioperative complications anticipated in elderly patients
18. Pathophysiology of pregnancy induced hypertension
19. Risk factors of bronchial asthma
20. Clinical features of anemia
21. Clinical features of pregnancy induced hypertension
22. Treatment of hypertension

