### SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH



### (A DEEMED TO BE UNIVERSITY)

### B.Sc. Allied Health Sciences Second Year Semester-III March 2025 Examination

### **B.Sc. Operation Theatre Technology (OTT)**

Time: 2.30 Hrs. Paper – I [Max. Marks: 80]

**Applied Pathology & Microbiology** 

(Use separate answer booklet for Section A & B)

Section-A

**Applied Pathology** (40 Marks)

Q.P Code: K3095

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

LONG ESSAY 1 X 10 = 10 Marks

1. Define anemia. Classify anemia based on morphology and etiological factors .Add a note on

laboratory investigations in Iron deficiency anemia(2+4+4)

SHORT ESSAY 3X 5 = 15 Marks

- 2. Write etiopathogenesis of emphysema
- 3. Define leukemia. Write the classification of leukemia
- 4. Define macrocytic anemia, classification and characteristics laboratory features

SHORT ANSWERS 5 X 3 = 15 Marks

- 5. Write three causes for neutrophilia
- 6. Write three test used to evaluate bleeding disorder
- 7. Name the clotting factors
- 8. Describe the morphology of Asbestos body
- 9. What is leukemoid reaction and name three conditions causing it

Section – B
Applied Microbiology (40 Marks)
Q.P Code: K3096

(Use separate answer booklet for Section-B)

LONG ESSAY  $1 \times 10 = 10 \text{ Marks}$ 

1. Classify sterilization. Describe in detail the working principle of hot air oven with a diagram. List the sterilization controls used in the hot air oven. (4+4+2).

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

- 2. Enumerate Aldehydes used in disinfection. Describe the mechanism of action and uses of Aldehydes.
- 3. Describe the mechanism of HEPA filter filtration and its application.
- 4. Describe the segregation of Biomedical waste with 2 examples for each.

SHORT ANSWERS 5 X 3 = 15 Marks

- 5. Name the methods of sterilization of Vaseline, Lowenstein Jensen's medium and surgical gauze.
- 6. Five moments of Hand Hygiene.
- 7. Mention the mode of action and uses of Sodium hypochlorite in the hospital.
- 8. Enumerate 3 agents causing Catheter Associated Urinary Tract Infection.
- 9. Enumerate the components of standard precautions

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

### **March 2025 Examination**

### **B.Sc.** Anesthesia & Operating Theatre Technology

Time: 2.30 Hrs. Paper –II [Max. Marks: 80]

Subject: Introduction to Anaesthesia and OT Technology

**Q.P Code: K3100** 

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

**Long Essay**  $2 \times 10 = 20 \text{ Marks}$ 

- 1. Enumerate the Mapleson breathing circuits. Write a note on each one of them in detail.
- 2. Discuss the indications and various equipment used in the oxygen therapy.

**Short Essay**  $6 \times 5 = 30 \text{ Marks}$ 

- 3. Write a note on endotracheal tube, Types uses of each type of ET tube?
- 4. Draw a labelled diagram of a gas cylinder. What are the parts of cylinder and their functions
- 5. What are the considerations when using packing materials for sterilization?
- 6. Write a note on nitrous oxide?
- 7. Write a short note on Closed circuit
- 8. What are the different types of anaesthesia? What are the surgeries done under each type of anaesthesia?

Short Answers  $10 \times 3 = 30 \text{ Marks}$ 

- 9 What are the signs and symptoms of local anesthetic toxicity?
- 10. Advantages and disadvantages of Thiopentone?
- 11. What is flash sterilization?
- 12. What are two folds of wrapping items for sterilization? Where should package be wrapped?
- 13. What are 3 different types of laryngoscope blades?
- 14 Name 3 different types of oral airways?
- 15. Name 3 different ways to give oxygen patients?
- 16. Vaporizers
- 17. Colour coding for waste disposable
- 18. What is RAE tube? Where are they used?

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# B.Sc. Allied Health Sciences Second Year Semester-III March 2025 Examination

### **B.Sc.** Anaesthesia & Operation Theatre Technology

Time: 2 Hrs. [Max. Marks: 40]

SUBJECT: APPLIED PHARMACOLOGY

**Q.P Code: K3110** 

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

**LONG ESSAY**  $1 \times 10 = 10 \text{ Marks}$ 

1. Describe various routes of drug administration with suitable example. Write various advantages and disadvantages of intravenous route

SHORT ESSAY 3 X 5 = 15 Marks

- 2. Define and classify biotransformation. Mention the phase I reactions with examples
- 3. Write the mechanism of action, uses and adverse effects of propranolol
- 4. Write the mechanism of action, uses and adverse effects of D-tubocurarine

**SHORT ANSWERS** 5 X 3 = 15 Marks

- 5. Pilocarpine
- 6. Nasal decongestants
- 7. Uses of adrenaline
- 8. Write three routes of drug excretion
- 9. Mention three crystalloids and three uses

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### (A DEEMED TO BE UNIVERSITY)

## **B.Sc. Allied Health Sciences Second Year Semester-III**March 2025 Examination

### **B.Sc.** Anesthesia and Operation Theatre Technology

Time: 2.30 Hrs.

Paper – IV

[Max. Marks: 80]

### Medicine relevant to Anesthesia and OT Technology

**Q.P Code: K3120** 

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

**Long Essay** 

2 X 10 = 20 Marks

- 1. What are the Complications of Diabetes Mellitus? Add a note on how are they managed
- 2. Classification of Anemia. Write about Diagnosis and Treatment of iron deficiency Anemia?

**Short Essay**  $6 \times 5 = 30 \text{ Marks}$ 

- 3 Add a short note on Physiological Changes in Pregnancy patient.
- 4 Write about Informed Consent for surgery
- 5 Write a short note on Diabetic ketoacidosis
- 6 Define Plasma Component
- 7 Add a short note on Apgar score
- 8 Mention the Problems of obesity

Short Answers  $10 \times 3 = 30 \text{ Marks}$ 

- 9 Physiological changes in geriatric patients
- 10. Name three COPD Complications
- 11. Supine Hypotension syndrome
- 12. Metabolic syndrome
- 13. Diagnosis of preeclampsia
- 14. Name 3 drugs used in treatment of asthma
- 15. Hypertensive Crisis
- 16. Name three Beta Blockers
- 17. What is Angina? What is Angiography
- 18. Name three Oral Hypoglycemia Drugs

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