SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

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: J3095

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define anemia. Describe the morphology of iron deficiency anemia. Write the investigations done in case of iron deficiency anemia
- 2. Define Emphysema. Describe etiopathogenesis, clinical feature and complications of emphysema

SHORT ESSAY (Answer any three)

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

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

- 3. Classify leukemia. Write the differences between leukemia and leukemoid reaction
- 4. Write causes and clinical features of pleural effusion
- 5. Describe etiopathogenesis of sickle cell anemia
- 6. Hemophilia
- 7. Write the classification of pneumoconiosis

SHORT ANSWERS (Answer any five)

- 8. Write three causes for pulmonary edema
- 9. What three test used to evaluate bleeding disorder
- 10. Write three causes for lymphocytosis
- 11. What is bleeding time
- 12. Write three clotting factors
- 13. Asbestos bodies
- 14. Draw microscopic picture of macrocytic blood picture

Section – B
Applied Microbiology (50 Marks)
Q.P Code: J3096

(Use separate answer booklet for Section-B)

LONG ESSAY

2X10=20 Marks

- 1. Explain in detail about Nosocomial infections and methods to prevent them.
- 2. Define & classify sterilization. Discuss in detail about the principle of autoclaving and its sterilization control.(2+3+5)

SHORT ESSAY (Answer any three)

3X5=15 Marks

- 3. Function and work flow at CSSD
- 4. Methods of testing disinfectants.
- 5. Spaulding's classification
- 6. HEPA Filters
- 7. Vancomycin resistant enterococci

SHORT ANSWERS (Answer any five)

5X3= 15 Marks

- 8. Segregation of biomedical waste
- 9. Name three virucidal disinfectants
- 10. Blood Spill management
- 11. Steps of hand hygiene
- 12. Name 3 sporicidal agents
- 13. Name 3 High level disinfectants
- 14. Precautions to be taken when loading articles into the Hot Air Oven.

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

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

March 2021 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Time: 3 Hrs.

Paper-II

[Max. Marks : 100]

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. Classify local anaesthetic agents. Describe local anaesthetic systemic toxicity and treatment
- 2. Describe the importance of sterilization & disinfection, advantages & disadvantages of autoclaving

Short Essay (Any ten)

10X5=50 Marks

- 3. Define disinfection mention tests for disinfection
- 4. Nitrous oxide
- 5. Tourniquet
- 6. Chemical sterilization
- 7. Thiopentone sodium
- 8. Mechanism of action of local anaesthetics
- 9. Describe laryngoscope
- 10. Lignocaine
- 11. Mention types of laryngeal mask airways. How do you sterilize LMA Neat labelled diagram of LMA
- 12. Classification of biomedical wastes
- 13. Indications & contraindications of an airway
- 14. Dry heat sterilization

Short Answers (Any ten)

10X3=30 Marks

- 15. Materials sterilized by autoclave
- 16. ETO gas sterilization
- 17. What is critical level of contamination? Give examples.
- 18. Seitz filter
- 19. Flash sterilization
- 20. Physical agents of sterilization
- 21. Sterilization of an endoscope
- 22. Testing of disinfectants
- 23. Second gas effect
- 24. Treatment of malignant hyperthermia
- 25. Absorbable suture materials
- 26. Types of laryngeal mask airways



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B.Sc. Allied Health Sciences Second Year (Semester-III) March 2021 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
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 $1 \times 10 = 10 \text{ Marks}$

Short essay (Answer any three)

 $3 \times 5 = 15$ Marks

- 2. Write the differences between crystalloids and colloids (5)
- 3. Mention five routes of drug administration with examples (5)
- 4. Explain mechanism of action, uses and adverse effects of atropine (1+3+1)
- 5. Explain mechanism of action, uses and contraindications to propranolol (1+2.5+1.5)

Short answer (Answer any five)

 $5 \times 3 = 15$ Marks

- 6. Mention three routes of drug excretion with one example for each
- 7. Write three uses of prazosin
- 8. Mention three skeletal muscle relaxants and write three uses
- 9. Mention three inhalational anaesthetic agents
- 10. Mention three local anaesthetic agents
- 11. Mention three uses of diazepam



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

March 2021 Examination

B.Sc. Anesthesia & Operation Theatre Technology

Time: 2.30 Hrs.

PAPER-IV

[Max. Marks : 80]

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 and classify obesity. Describe its risk factors, etiopathogenesis and complications of obesity.
- 2. Define bronchial asthma. Describe perioperative complications and management.

Short Essay (Any Six)

6X5=30 Marks

- 3. Define diabetes mellitus. Describe its etiopathogenesis.
- 4. Define hypertension. Describe its treatment.
- 5. Perioperative complications and treatment of ischemic heart disease
- 6. Perioperative complications anticipated in elderly patients and how do you manage.
- 7. Define emphysema. Describe it's pathophysiology
- 8. Physiological changes in pregnancy
- 9. Etiopathogenesis of pregnancy induced hypertension
- 10. Perioperative complications and management of anemia

Short Answers (Any ten)

10X3=30 Marks

- 11. Oral hypoglycemic agents
- 12. Complications of diabetes mellitus
- 13. Treatment of diabetic ketoacidosis
- 14. Risk factors of hypertension
- 15. Hypertensive crisis
- 16. Perioperative complications in elderly
- 17. Define and classify COPD
- 18. Risk factors of bronchial asthma
- 19. Clinical features of PIH
- 20. Classification of anemia
- 21. ACE inhibitors
- 22. Treatment of hypoglycemia

