

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

September 2021 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 : J4135

LONG ESSAY

2 X 10 = 20 Marks

1. Define Atherosclerosis. Discuss the risk factors, pathogenesis and morphology of atherosclerosis.
2. Define and classify hypertension. Discuss etiopathogenesis of hypertension

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Classify aneurysm
4. Classify congenital heart disease. Describe in detail mitral stenosis
5. Cardiomyopathy- definition and types.
6. End stage renal disease - discuss causes and effects.
7. Obstructive uropathy - causes and clinical manifestation.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Name three clinical symptoms of IHD.
9. Saccular aneurysm
10. Give three condition causing left to right shunt .
11. Name three uses of renal dialysis
12. Name 2 criteria for chronic renal failure
13. Name three risk factors for ischemic heart disease
14. Tetralogy of fallot

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. Enumerate the pathogens that cause food borne infections. Describe the clinical manifestations and laboratory diagnosis of Salmonella typhi.(3+3+4)
2. What are blood borne infections? Write in short its prevention.(5+5)

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Biomedical Waste management.
4. Laboratory diagnosis of Shigella
5. OT sterilization.
6. Five moments of Hand Hygiene
7. Laboratory diagnosis of tuberculosis

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Draw a neat labelled diagram of round worm ova.
9. Name three types of samples collected in case of respiratory tract infections
10. Mention the uses of aldehydes as a disinfectant in the hospital.
11. Draw a labelled diagram of Hepatitis B virus.
12. Mention the clinical features of Pulmonary tuberculosis
13. Name three gram negative bacilli.
14. Name three DNA viruses.

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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B.Sc. Anesthesia & Operation Theatre Technology

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 Mention different surgical positions. Describe lateral position and its concerns
- 2 Categorize biomedical wastes and mention problems associated with biomedical wastes

Short essay (Any ten)

10 X 5 = 50 Marks

- 3 Sterilizing anaesthesia circuits
- 4 Surgical steps of abdominal hysterectomy
- 5 Preparation of patient coming for laparotomy
- 6 Surgical drapes
- 7 Packing instruments
- 8 Complications of massive blood transfusion
- 9 Universal precautions
- 10 Modified post anaesthesia discharge scoring system for daycare surgeries
- 11 Airway fire
- 12 Describe surgical fire fuel sources and its prevention
- 13 Precaution to be taken to avoid electrical shock
- 14 Pulse oximetry

Short Answers (Any ten)

10 X 3 = 30 Marks

- 15 Pre operative equipment's for day care surgery patients
- 16 Uses of soda lime
- 17 Preservative used to store blood
- 18 Surgical instruments used for tonsillectomy procedure
- 19 Floor cleaning
- 20 Babcock
- 21 Colour coding for biomedical waste segregation
- 22 Fire triangle
- 23 Mention the immediate actions after needle stick injury
- 24 Complications of hypothermia
- 25 Invasive blood pressure monitoring
- 26 High lithotomy



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

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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 betalactam antibiotics ----- 4
- b. Explain mechanism of action, uses and adverse effects of amoxicillin -----2+2+2

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of enalapril (2+2+1)
3. Explain mechanism of action, uses and adverse effects of metoclopramide (2+2+1)
4. Explain mechanism of action, uses and adverse effects of nitroglycerine (2+2+1)
5. Explain mechanism of action, uses and adverse effects of metformin (2+1.5+1.5)

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Mention **three** uses of disinfectants
7. List **three** uses and **three** adverse effects of prednisolone
8. Explain mechanism of action and write **one** use of theophylline
9. List **three** uses of cetirizine
10. Mention **three** uses of frusemide
11. Mention **two** uses and **one** adverse effect of amikacin

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B.Sc. Allied Health Sciences Second Year (Semester-IV)
September 2021 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. Enumerate signs & symptoms and management of septic shock
2. Describe etiopathogenesis, signs & symptoms and management of renal failure

Short Essay (Answer any Six)

6X5=30 Marks

3. Signs & symptoms of hyperkalemia and how to treat it
4. Hydroxyethyl starch – indication, advantages & disadvantages
5. Indication and technique of chest compression in new born
6. Metabolic acidosis
7. Live function test
8. Jackson Rees breathing circuit
9. Etiopathogenesis of cerebrovascular accident
10. Brief note on dialysis

Short Answers (Answer any ten)

10X3=30 Marks

11. Furoremide and its uses
12. Premedication in a child
13. Normal range of serum blood urea and serum creatinine
14. Composition of extracellular fluid
15. Risk factors of stroke
16. Postoperative shivering
17. Composition of normal saline
18. Parts of laryngoscope
19. Uses of dextrose saline
20. Hyponatremia management
21. Cause of cirrhosis of liver
22. APGAR Score