

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

March 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 : J4135

LONG ESSAY

2 X 10 = 20 Marks

1. Define atherosclerosis. What are the risk factors and etiopathogenesis of atherosclerosis?
2. End stage renal disease- definition, causes, effects and role of dialysis.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Describe aneurysm. Write in detail about pathogenesis of aneurysm
4. Classify renal calculi. Describe pathogenesis of renal calculi
5. Etiopathogenesis of ischaemic heart disease.
6. Renal dialysis.
7. Tetralogy of fallot.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Name three risk factors of hypertension
9. Enumerate causes for renal calculi
10. What are the uses of renal dialysis
11. Name three congenital heart disease
12. Name three Complications of aneurysm
13. Name three valvular heart disease
14. Classify primary cardiomyopathies.

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 causing respiratory infections. Describe in detail the pathogenesis and laboratory diagnosis of tuberculosis. (2+3+5)
2. Define disinfection. Classify disinfectants. Add a note on disinfectant usage in the hospital.(2+3+5)

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Laboratory diagnosis of cholera.
4. Laboratory diagnosis of HIV.
5. Describe the infection control practices to prevent transmission of infections by faeco-oral route among health care workers
6. Microbiological surveillance and sampling in Operation theatre.
7. Describe the clinical manifestations and laboratory diagnosis of round worm infection.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Needle stick injury
9. Mention the three viruses transmitted by blood.
10. Name any three gram negative bacilli.
11. Name 4 water borne pathogens.
12. Name three infections caused by Pneumococci.
13. Draw a labelled diagram of trophozoite and cyst of Giardia lamblia
14. Hepatitis B vaccines



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(A DEEMED TO BE UNIVERSITY)

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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 Define day care anaesthesia. Write in detail about specific discharge criteria for patient undergoing day care surgery.
- 2 Collection & storage of blood. Write in detail

Short essay (Any ten)

10 X 5 = 50 Marks

- 3 Prone position
- 4 Effects of positioning in obese patients
- 5 Describe intraoperative capnography monitoring.
- 6 Describe patient monitoring after recovery from general anaesthesia
- 7 OT preparation for laser surgery
- 8 Describe surgical fire heat sources and its prevention
- 9 Precautions while handling HIV positive patient in OT
- 10 Treatment and disposal of Biomedical wastes
- 11 Universal precautions
- 12 Surgical drapes
- 13 Brains circuit
- 14 Sterilizing anaesthesia circuits

Short Answers (Any ten)

10 X 3 = 30 Marks

- 15 High lithotomy
- 16 Ryle's Tube
- 17 Uses of pulse oximeter
- 18 Factors affecting ETCO₂
- 19 Precautions operating room hazards
- 20 Fine triangle
- 21 Mention blood borne pathogens
- 22 Biomedical wastes disposed in black bag
- 23 Floor cleaning
- 24 Surgical instruments used for tonsillectomy
- 25 Indications used in soda lime
- 26 Importance of consent



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Time: 2 Hrs.

[Max. Marks: 40]

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 ramipril -----2+2+2

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of third generation cephalosporins (2+2+1)
3. Explain mechanism of action, uses and adverse effects of pantoprazole (2+2+1)
4. Explain mechanism of action, uses and adverse effects of glimepiride (2+2+1)
5. Explain mechanism of action, uses and adverse effects of ciprofloxacin (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 prednisolone
8. List **three** drugs from different groups used in bronchial asthma
9. Mention **three** second generation antihistaminics
10. Mention **three** uses of amikacin
11. Mention **three** drugs used in vomiting



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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.
Draw neat labeled diagrams wherever necessary*

Long Essay

2X10=20 Marks

1. Define and classify shock. Describe in details about cardiogenic shock
2. Classify intravenous fluids. Write a note on colloids

Short Essay (Answer any Six)

6X5=30 Marks

3. Management and complications of cerebrovascular accident
4. Liver function test
5. Etiopathogenesis, clinical manifestations chronic kidney disease
6. Write a briefly about Neonatal resuscitation
7. Causes and management of hyperkalemia
8. Metabolic acidosis
9. Hydroxyethyl starch – indication, advantages & disadvantages
10. Premedications of pediatric patient

Short Answers (Answer any ten)

10X3=30 Marks

11. Hemodialysis
12. Furosemide, its uses
13. Renal function test
14. Risk factors of stroke
15. Jackson Rees breathing circuit
16. Cause of cirrhosis of liver
17. APGAR score
18. composition of intracellular and extracellular fluids
19. management of hypovolemia
20. hypoxemia
21. Ringer lactate
22. Hepatic encephalopathy

