

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

July/August 2019 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 : J4135

LONG ESSAY

2 X 10 = 20 Marks

1. Define Hypertension. Write the Clinical classification and describe its etiopathogenesis.
2. Define Ischemic heart disease. Describe its pathophysiology and complications.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Obstructive uropathy.
4. Complications of aneurysms.
5. Describe the pathophysiology of heart failure.
6. Enumerate the risk factors for atherosclerosis.
7. Lab diagnosis of acute renal failure.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Types of cardiomyopathy
9. Name three laboratory investigations for ischemic heart disease.
10. Ventricular Septal Defect.
11. Tetralogy fallot.
12. Name three causes of acute renal failure.
13. Classify cardiomyopathy.
14. Mention three complications of aneurysm.

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. List the viruses that can cause infections in Health care workers. Describe in detail about Hepatitis B infection and add a note on prophylaxis. (3+3+4)
2. Enumerate the organisms acquired by faeco - oral route. Describe the laboratory diagnosis of *Salmonella typhi* (3+7)

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Laboratory diagnosis of Hepatitis C.
4. Describe the infection control practices to prevent respiratory tract infections among health care workers.
5. Biomedical waste management.
6. Laboratory diagnosis of round worm infection.
7. Draw a neat labelled diagram of HIV virus.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Name three DNA viruses.
9. Mention the clinical manifestations of Cytomegalovirus.
10. Name three Personal protective equipments.
11. Name four air borne pathogens.
12. List three disinfectants used in health care settings.
13. Mention the steps in the management of blood spills.
14. Mention the three viruses transmitted by blood.

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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 Describe the surgical table setting for laparotomy for duodenal perforation.
- 2 Mention four basic intraoperative monitors. Describe in detail about pulse oximeter.

Short essay (Answer Any ten)

10 X 5 = 50 Marks

- 3 Effects of positioning in obese patients.
- 4 Methods of confirming position of endotracheal tube.
- 5 Intraoperative temperature monitoring.
- 6 What are the preventive measures to avoid needle stick injuries.
- 7 Fire safety measures in OT.
- 8 Cleaning and disinfection of OT after a HIV positive case.
- 9 Complications following daycare anaesthesia.
- 10 Blood transfusion reactions.
- 11 Electro cautery.
- 12 Surgical drapes.
- 13 Informed consent.
- 14 Magill's circuit.

Short Answers (Answer Any ten)

10 X 3 = 30 Marks

- 15 Concerns of prone position.
- 16 Precautions while attaching ECG electrodes.
- 17 Phases of capnogram.
- 18 Complications of hypothermia.
- 19 Personal protective equipment's
- 20 Mention blood borne pathogens
- 21 Biomedical wastes disposed in red bag.
- 22 Allies
- 23 Ryle's Tube.
- 24 Gases used for laparoscopic inflations.
- 25 Uses of Bain's circuits.
- 26 Name 6 daycare procedures.

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

B.Sc. Allied Health Sciences Second Year Semester-IV
July / August 2019 Examination
B.Sc. 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 drugs used in hypertension ----- 4
- b. Explain mechanism of action, uses and adverse effects of losartan -----2+2+2

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of amoxicillin (2+2+1)
3. Explain mechanism of action, uses and adverse effects of ondansetron (2+2+1)
4. Explain mechanism of action, uses and adverse effects of insulin (2+1.5+1.5)
5. Explain mechanism of action, uses and adverse effects of gentamicin (1.5+2+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 of salbutamol, ipratropium and theophylline
9. List **three** uses of chlorpheniramine
10. Mention **three** uses of metronidazole
11. Mention **three** uses of ciprofloxacin

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SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
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B.Sc. Allied Health Sciences Second Year Semester-IV
July/August 2019 Examination

B.Sc. 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. Describe etiopathogenesis, signs & Symptoms and management of renal failure.
2. Risk factors, clinical features, management and complication of cerebrovascular accident.

Short Essay (Answer any Six)

6X5=30 Marks

3. Metabolic acidosis
4. Indication and technique of chest compression in new born
5. Pathophysiology and clinical manifestations of chronic kidney disease
6. Classify intravenous fluids. Write in briefly about normal saline
7. Liver function test
8. Briefly note on dialysis
9. How do you arrange the anaesthesia table for a 3 years old child coming for inguinal hernia repair surgery
10. Causes, Clinical features of liver cell failure

Short Answers (Answer any ten)

10X3=30 Marks

11. Dobutamine.
12. Composition of ringer lactate.
13. Fasting guidelines for a pediatric patient.
14. APGAR score.
15. Parts of laryngoscope.
16. Causes of cirrhosis.
17. Composition of intracellular and extracellular fluids.
18. Management of hyperkalemia.
19. Risk factors for stroke.
20. Ambu bag.
21. Post operative pain management.
22. Normal values of serum electrolyte.

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