

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

February 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 Atherosclerosis. Discuss the risk factors, pathogenesis and morphology of atherosclerosis.
2. Define acute renal failure (ARF) and list the causes, pathogenesis, and effects of acute renal failure.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Pathogenesis of ischemic heart disease
4. Complications of aneurysm
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. Classify hypertension
10. Give three condition causing left to right shunt.
11. What is cardiomyopathy
12. Name 2 criteria for chronic renal failure
- 13 Name three risk factors for ischemic heart disease
14. Name three uses of renal dialysis

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. Describe the preventive measures to control infections in health care settings. .
2. Enumerate the pathogens that cause food borne infections. Describe the clinical manifestations and laboratory diagnosis of cholera. (3+2+5)

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Lab diagnosis of Mycobacterium tuberculosis-.
4. Sampling methods applied in an outbreak of MRSA
5. Name the infections transmitted to health care workers through blood. Mention the preventive measures.
6. Hand hygiene.
7. Mention the risk factors and preventive measures of Surgical site infections.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Name three disinfectants
9. Mention the three viruses transmitted by blood.
10. Name any three standard precautions
11. Name 4 water borne pathogens.
12. Polio vaccines
13. Draw a neat and labelled diagram of Human immunodeficiency virus (HIV)
14. Name the 3 causative agents causing Catheter associated urinary tract infections

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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 Name different types of surgical positions. Describe prone position and its concerns
- 2 Describe care and maintenance of soda lime

Short essay (Answer Any ten)

10 X 5 = 50 Marks

- 3 Mentions types and describe connections of ECG cables with a neat diagram.
- 4 Complications of hypothermia and precautions taken to avoid hypothermia.
- 5 Mention the preventive measures to avoid needle stick injuries.
- 6 Fire safety measures in operation theatre.
- 7 Mention the precautions taken while handling HIV positive patient in operation theatre.
- 8 Drugs prepared in day care surgery under general anaesthesia.
- 9 Treatment and disposal of biomedical wastes.
- 10 Describe non immunological transfusion reactions .
- 11 Describe table preparation for breast abscess drainage.
- 12 Electro cautery.
- 13 Informed consent.
- 14 Jackson's Rees circuit.

Short Answers (Answer Any ten)

10 X 3 = 30 Marks

- 15 Mention effects of prone position in obese patients.
- 16 Low lithotomy.
- 17 Sites of placement of pulse oximeter.
- 18 Phases of capnogram.
- 19 Mention respiratory system monitoring methods.
- 20 Intraoperative awareness monitoring.
- 21 Monitors used in post operative care.
- 22 Personal protective equipment.
- 23 Mention blood borne pathogens.
- 24 Babcock's forceps.
- 25 Floor cleaning.
- 26 Colour coding of vaporizers.

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

B.Sc. Allied Health Sciences Second Year (Semester-IV)
February 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 angiotensin converting enzyme inhibitors (ACEI) -----2+2+2

Short essay (Answer any three)

3 × 5 = 15 Marks

2. Explain mechanism of action, uses and adverse effects of ciprofloxacin (2+2+1)
3. Explain mechanism of action, uses and adverse effects of metoclopramide (2+2+1)
4. List the uses and adverse effects of prednisolone (2.5+2.5)
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 antiseptics
7. Explain mechanism of action and write **one** use of metformin
8. Explain mechanism of action and write **one** use of theophylline
9. List **three** uses of levocetirizine
10. Mention **three** uses of metronidazole
11. Mention **three** betalactamase inhibitors

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B.Sc. Allied Health Sciences Second Year (Semester-IV)
February 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.
Draw neat labeled diagrams wherever necessary.

Long Essay

2X10=20 Marks

1. What is neonatal resuscitation? Provide the 'neonatal resuscitation algorithm'.
2. Etiopathogenesis of chronic renal failure.

Short Essay (Answer Any Six)

6X5=30 Marks

3. Cardiogenic shock.
4. Indications for IV fluid therapy.
5. Which babies need resuscitation?
6. Renal osteodystrophy.
7. Clinical features of liver cirrhosis.
8. What is epilepsy? Classify epilepsy.
9. Complications of chronic liver disease.
10. Types of colloids in use.

Short Answers (Answer Any ten)

10X3=30 Marks

11. 'Golden minute' in neonatal resuscitation.
12. Management of cerebrovascular accident (CVA).
13. Stages of chronic kidney disease.
14. Define cirrhosis.
15. How is epilepsy treated? Immediate and long term.
16. What is stroke? What are the causes?
17. How is paediatric patient different from adults?
18. Dextrose – different formulations and uses.
19. Psychological preparation of a paediatric patient for anesthesia.
20. Laboratory findings in chronic kidney disease.
21. Etiopathogenesis of liver cirrhosis.
22. Albumin.

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