

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

August-2016 Examination

B.Sc. Operation Theatre Technology (OTT)

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 : AHS-114

LONG ESSAY

2 X 10 = 20 Marks

1. Define hypertension, and its types. Describe etiopathogenesis.
2. What are the causes for pericardial effusion. Describe in detail the lab diagnosis.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Lab diagnosis of myocardial infarction and its complications.
4. What are the causes for acute renal failure.
5. Mention types of ketone bodies. How it is detected in urine.
6. Cardiomyopathy- causes and significance.
7. What are the causes for granular contracted kidney. Describe etiopathogenesis of chronic pyelonephritis.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. What is hematuria and its causes.
9. Complication of valvular heart disease.
10. Complications of aneurysms.
11. Crystals found in urine.
12. What are the complications of atherosclerosis.
13. What is obstructive uropathy and its causes.
14. What are the types of emphysema.

Section – B

Applied Microbiology (50 Marks)

Q.P Code : AHS-115

(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. Define nosocomial infection. Add a note on common types of health care associated infections.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Safe injection practices.
4. Hand hygiene.
5. Personal protective equipment.
6. Precautions in operation theatre.
7. Health care associated urinary tract infections.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Name three commonly used antiseptics.
9. Iatrogenic infections.
10. Pre exposure prophylactic vaccines in hospital setting.
11. Infection control precautions in respiratory tract infections.
12. Post exposure prophylaxis drugs against HIV.
13. Aldehydes as disinfectants.
14. Infection control committee.

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Paper – II

[Max. Marks : 100]

Introduction To Technology

Q.P Code : AHS-116

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Name the different types of surgical positions. Describe the precautions taken during prone positioning under GA.
2. What are the indications for blood transfusion. Precautions taken before transfusing blood.

SHORT ESSAY (Answer any ten)

10 X 5 = 50 Marks

3. Colour coding for garbage collection.
4. Criteria for transfer of patients from post anesthesia care unit.
5. Pulse oximeters.
6. Sellicks manouvere.
7. Universal precautions.
8. Different types of diathermy and its uses.
9. Precautions in radiation exposure during surgery.
10. Magill's forceps.
11. Safety mechanisms in anaesthesia machine.
12. Informed consent.
13. Record keeping in anesthesia.
14. Complication of spinal anesthesia.

SHORT ANSWERS (Answer any ten)

10 X 3 = 30 Marks

15. Sources of fire in OT.
16. Laryngeal mask airway uses.
17. Name intra operative monitors.
18. Uses of infusion pump.
19. Aleys forceps.
20. Post tonsillectomy position.
21. Rhyle's tube insertion.
22. How is I and D done in OT.
23. Name different types of endoscopes.
24. Two different types of surgical sutures.
25. Swabs and surgical sponges.
26. Bains circuit.

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Time: 2.30 Hrs.

Paper – III

[Max. Marks: 80]

Pharmacology

Q.P. Code: AHS-117

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify drugs used in angina pectoris. Explain mechanism of action, uses and adverse effects of nitroglycerine.
2. Classify beta-lactam antibiotics. Describe the mechanism of action, therapeutic uses and side effects of penicillin G.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Explain mechanism of action, uses and adverse effects of enalapril.
4. Proton pump inhibitors.
5. Explain mechanism of action, uses and adverse effects of ciprofloxacin.
6. Insulin preparations.
7. Metoclopramide.
8. Second generation antihistaminics.
9. Selective B₂ agonist.
10. Explain mechanism of action, uses and adverse effects of frusemide.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Mention three aminoglycoside antibiotics.
12. Define superinfection. Mention two drugs producing it.
13. Mention three antimicrobial drugs used in surgical prophylaxis.
14. Define antiseptics. Give two examples.
15. Mention three bactericidal antibiotics.
16. Write three advantage of amoxicillin compared to ampicillin.
17. List three drugs used in anaphylactic shock.
18. Explain mechanism of action and write two uses of minoxidil.
19. Write three uses of metronidazole.
20. List two osmotic diuretics and write two clinical uses.
21. List three antacids.
22. List three uses of clonidine.

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Paper - IV

[Max. Marks: 80]

Medicine Relevant to OT Technology

Q.P. Code: AHS-118

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Discuss septic shock?
2. Discuss perioperative complication of chronic liver disease

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Preoperative preparation of paediatric patient
4. ABC of neonatal resuscitation
5. Treatment of cerebrovascular accident
6. Uses of colloids
7. Composition of Ringer lactate
8. Composition of IV fluids
9. Minor postoperative complications
10. Postoperative oxygen therapy

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Metabolic acidosis
12. Hypokalemia
13. Hypertonic saline
14. Hyperkalemia
15. Dialysis
16. Obstructive uropathy
17. Jackson rees breathing circuit
18. Lidocaine
19. Postoperative hypoxia
20. Two uses of dextrose saline
21. Postoperative pain management
22. 4.5% normal saline

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