

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

October 2015 Examination

B.Sc. Operation Theater 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 atherosclerosis. What are the risk factors. Describe in detail its etiopathogenesis.
2. End stage renal disease- definition, causes, effects and role of dialysis.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Hyaline arteriosclerosis.
4. Define heart failure. Add a note on etiology.
5. Etiopathogenesis of ischaemic heart disease.
6. Proteinuria.
7. Tetralogy of fallot.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Various types of emphysema.
9. Enumerate causes for chronic pyelonephritis.
10. Benedict's test.
11. Bile pigments.
12. Complications of mitral stenosis.
13. Coronary arteritis.
14. Classify primary cardiomyopathies.

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. Enumerate the pathogens that cause respiratory infections. Describe in detail pathogenesis, and laboratory diagnosis of tuberculosis.
2. Define disinfection. Classify agents used for disinfection. Add a note on disinfectant usage in the hospital.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Laboratory diagnosis of cholera.
4. Widal test.
5. Pulse polio immunization programme.
6. Life cycle of giardia lamblia.
7. Standard precautions.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Name three DNA viruses.
9. Prophylaxis of hepatitis B.
10. Name three infections transmitted by bloodborne route.
11. Draw a neat labeled diagram of the HIV virus.
12. Quellung reaction.
13. Name three food borne pathogens.
14. Name three infections caused by herpes simplex virus.

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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 : 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. Describe preoperative preparation and anaesthetic management of a patient posted for subtotal Thyroidectomy.
2. Describe epidural anaesthesia and caudal epidural anesthesia.

SHORT ESSAY (Answer any Ten)**10X 5 = 50 Marks**

3. Informed consent.
4. Gas manifold.
5. CSSD.
6. Brachial plexus block by supra clavicular approach.
7. Trolley preparation for a case of fibroadenoma breast.
8. C-ARM in operation theatre.
9. Cataract surgery.
10. Pulse Oximetry.
11. Central venous pressure.
12. Urinary catheterisation.
13. Electrical safety measures in OT.
14. Autoclaving.

SHORT ANSWERS (Answer any Ten)**10 X 3 = 30 Marks**

15. Gluteraldehyde.
16. Closed circuit.
17. Laryngoscope.
18. Mismatched blood transfusion.
19. Fire safety measure in OT.
20. AMBU Bag.
21. Air conditioning in OT.
22. Define monitoring.
23. Prone position.
24. Fibre optic bronchoscope.
25. Assessing the blood loss.
26. Position for adenotonsillectomy.

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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 labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify drugs used in peptic ulcer. Write the mechanism of action, uses of Omeprazole.
2. Classify Beta Lactam antibiotics. Write the mechanism of action, adverse effects and therapeutic uses of Amoxicillin.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Explain mechanism of action, uses and adverse effects of Enalapril.
4. Mechanism of action and therapeutic uses of Metoclopramide.
5. Explain Mechanism of action, uses and adverse effects of Verapamil.
6. List the uses of Anti Histaminics.
7. Enumerate halogens and their therapeutic uses.
8. Therapeutic uses of Aminoglycosides.
9. Explain mechanism of action, uses and adverse effects of Ciprofloxacin.
10. Salbutamol.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Enumerate three drugs used in anaerobic infection.
12. Three adverse effects of glucocorticoids
13. Adverse effects of insulin.
14. Therapeutic uses of third generation cephalosporins
15. List three drugs used in Anaphylactic shock.
16. Mechanism of action of Sulfonylureas.
17. Explain mechanism of action and write two uses of Spirinolactone.
18. Adverse effects of theophylline.
19. List three beta lactamase inhibitors.
20. List three uses of Frusemide.
21. Mechanism of action and uses of hydrogen peroxide.
22. Enumerate three insulin analogues.

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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 cardiogenic shock?
2. Arrangement of paediatric anaesthesia table?

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Etiology of chronic liver failure.
4. Metabolic acidosis.
5. Crystalloid advantages.
6. Treatment of Hypomagnesemia.
7. Complications of cerebrovascular accident.
8. Complications of potassium in body fluid.
9. Drugs used in premedication of paediatric patient.
10. Hypoxemia.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Normal saline.
12. Hyperkalemia.
13. Hypocalcemia.
14. Disadvantages of colloid.
15. Paediatric ambu bag.
16. Alkalosis.
17. Management of epilepsy.
18. Classification of chronic renal failure.
19. Body fluid compartments.
20. Define hypovolemia.
21. Fasting guidelines in paediatric patients.
22. Postoperative vomiting.