

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

February – 2016 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 anemia. Mention the morphological classification (types) and discuss the laboratory diagnosis of anaemia.
2. Define chronic obstructive airway diseases. Mention the different types and briefly describe one of them.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Pleural effusion.
4. Pneumoconiosis.
5. Pulmonary congestion.
6. Laboratory test for bleeding disorder.
7. Definition of leukemia and name any two common types of leukemia.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Polycythemia.
9. Hemolytic anemia.
10. Leukocytosis.
11. Pulmonary edema.
12. Complications of COPD.
13. Eosinophilia.
14. Bronchiectasis.

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. Discuss briefly the common types of health care associated infections.
2. Define sterilization and discuss briefly about dry heat sterilization.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Methods of testing disinfectants.
4. Methods of monitoring the autoclave.
5. plasma sterilization.
6. Universal precautions.
7. Sterilization by filtration.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Cold sterilization.
9. Disadvantages of Ethylene oxide.
10. Uses of antiseptics.
11. Incineration.
12. Importance of hypochlorite's in disinfection.
13. Hydrogen peroxide fogging.
14. Tego compounds.

(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. Sterilization of Anaesthesia equipments.
2. Describe in detail about CSSD lay out plan. Write about hospital waste management.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Vicryl.
4. Hazards in OT.
5. Disinfection-Principles and Methods.
6. Fentanyl.
7. Classification of local anaesthetics.
8. Lignocaine.
9. Care of Anaesthesia equipment.
10. Crystalloids and Colloids.
11. Scoline.
12. Bupivacaine.
13. Boyles apparatus.
14. Autoclave.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Prolene- Sizes and uses.
16. Absorbable sutures.
17. Midazolam.
18. Cylinder colour coding.
19. Thiopentone.
20. Entonox.
21. Lignocine.
22. Biohazards.
23. Halothane.
24. Stylet.
25. Propofol.
26. Sterilization of endoscope.

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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. Enumerate inhalational general anesthetics. Compare and contrast halothane with ether (tabulate)
2. Classify routes of drug administration. Write the advantages and disadvantages of intra venous route of drug administration.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Explain mechanism of action, uses and adverse effects of diazepam.
4. Explain the uses and contraindications to morphine.
5. "Write the advantages and disadvantages of propofol"
6. Therapeutic uses and adverse effects of adrenaline.
7. Site and technique of administration of local anesthetic.
8. Dextrans.
9. Mechanism of action and therapeutic uses of Pancuronium.
10. Explain the mechanism of action, uses and adverse effects of aspirin.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Advantages of ketamine.
12. Mechanism of action of lignocaine.
13. List the uses of neostigmine.
14. Enumerate three uses of atropine.
15. Enumerate three drugs used as Preanesthetic medication with rationale.
16. List three uses of propranolol.
17. Three therapeutic uses of alpha blockers.
18. Explain first order kinetics.
19. "List three centrally acting skeletal muscle relaxants"
20. Explain diffusion hypoxia.
21. Explain succinylcholine apnoea.
22. Explain three types of drug antagonism with examples.

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Paper - IV

[Max. Marks : 80]

Time : 2.30 Hrs.

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. Describe Pre-operative assessment and preparation of a patient with 110 Kg weight and 150 Cm height posted for laproscopic cholecystectomy.
2. Describe preoperative preparation and management of a patient with bronchial asthma posted for exploratory laparotomy.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Cardiac catheterisation.
4. Diabetic foot care.
5. β blockers (Beta Blockers)
6. Insulin.
7. Changes in vertebral column in pregnancy.
8. Antiarrhythmic agents.
9. Post operative monitoring in a elderly patient.
10. Coagulation changes in pregnancy.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Causes of anaemia.
12. Treatment of Hypoglycemia.
13. Oxytocin.
14. Supine hypotension syndrome.
15. Calcium channel blockers.
16. Anti platelet drugs.
17. Oral hypoglycemic agents.
18. Methods to obtund cardio vascular response to laryngoscopy and intubation.
19. Hyperosmolar nonketotic coma.
20. Post operative pulmonary complications in copd patients.
21. Air way problems in a patient with PIH.
22. Diabetic neuropathy.