

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

February – 2017 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 anemia. Describe in detail diagnosis of hemolytic anemia.
2. Classify leukemia. Describe briefly chronic myeloid leukemia.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. What are the major causes for bleeding disorders.
4. Agranulocytosis.
5. Define emphysema and describe its various types.
6. Silicosis.
7. Define edema. Write briefly on pulmonary edema.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Eosinophilia.
9. Mention various methods of estimation of hemoglobin.
10. What are the causes for pleural effusion.
11. Normal values of bleeding time. Mention two causes where it is prolonged.
12. What is the normal leukocyte count and mention four causes for lymphocytosis.
13. Bleeding time.
14. N/ 10 HCL

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. Define sterilization. Classify the sterilization methods and discuss in detail about dry heat sterilization.
2. Explain in detail about Nosocomial infections and methods to prevent them.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Sterilization by radiation.
4. Vancomycin resistant enterococci.
5. Write briefly about the concepts of disinfection.
6. Universal precautions.
7. Spaulding's classification.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Types of filters used in sterilization in filtration method.
9. How are surgical instruments cleaned?
10. Fumigation.
11. Plasma sterilisation.
12. Biological method of sterilization control of autoclave.
13. Name three sporicidal agents.
14. Flaming.

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

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Time : 3 Hrs.

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. What are the agents used for chemical sterilization ? what are the advantages and disadvantages of chemical disinfection.
2. Name the intravenous anesthetic agents. Compare propofol and thiopentone sodium.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. How do you clean and sterilize various anesthetic equipments?
4. Plasma sterilization.
5. Name the different types of endotracheal tubes. Name the parts of a cuffed endotracheal tube.
6. Colour coding of bags for biomedical waste segregation.
7. Oxygen therapy and equipments used for oxygen therapy.
8. Local anesthesia toxicity and management.
9. Physical properties of nitrous oxide.
10. LMAs- indications and contraindications.
11. Methods of sterilization? Mention disadvantages of each.
12. Discuss the evolution of inhalational agents. Which one is the safest?
13. What are the additives commonly used with local anesthetics? The advantages of each of the additive?
14. Safe practices while handling the different sterilization methods?

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. How to clean and sterilize fiberoptic bronchoscope?
16. LMA-parts, indications, how to insert?
17. EMLA cream.
18. Name different suture materials.
19. What is Midazolam? What are its uses.
20. Ketamine.
21. Dry heat for sterilization.
22. Color coding for inhalational anaesthetic agents.
23. Drugs used for subarachnoid block.
24. Oxygen masks-types, uses.
25. How do you calculate the size of the endotracheal tube?
26. Write differences between vicryl and prolene.

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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 adrenergic receptor blockers. Explain the mechanism of action, uses and contraindications to propranolol.
2. Classify general anesthetics. Write the advantages and disadvantages of ether anesthesia.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Merits and demerits of I.M route.
4. Drug synergism.
5. Classification of cholinergic agonists.
6. Properties of local anesthetics.
7. Methods of prolongation of drug action.
8. Mechanism of action, uses and adverse effects of d-tubocurarine.
9. Merits of oral route of administration.
10. Uses, advantages and dis-advantages of Thiopentone-sodium.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Mention drugs used by inhalational route.
12. Mention three rules of elimination with one example for each.
13. Reason for combining atropine and morphine in pre anesthetic medication.
14. Rationale for using atropine in O.P poisoning.
15. List three uses of adrenaline.
16. Basis for Administering Lignocaine With Adrenaline.
17. List three crystalloids and write three indications for its use.
18. List three uses of diclofenac.
19. List three uses of diazepam.
20. Explain succinylcholine apnoea and its treatment.
21. WHO definition of drug and define chemotherapy.
22. Define local anesthesia with suitable example.

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Time : 2.30 Hrs.

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. What are the anesthetic considerations in a morbidly obese patient coming for surgery?
2. A 72 year old male with ischemic heart disease is posted for exploratory laparotomy. What are the anesthetic considerations?

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Complications of long standing diabetes mellitus.
4. Causes for ischemic heart disease and management.
5. Define and classify hypertension. Write a note on beta blockers.
6. Classify oral hypoglycemics.
7. Etiopathology of bronchial asthma and management.
8. Cardiovascular changes in pregnancy.
9. Perioperative complications in the elderly.
10. Perioperative complications in anemia.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Management of anemia.
12. Management of diabetes mellitus.
13. ACE inhibitors.
14. Hypertensive crisis-management.
15. Diabetic ketoacidosis.
16. Physiological changes in the elderly.
17. Ischemic heart disease-etioptogenesis.
18. Preoperative management of COPD.
19. Mention the diseases obesity can lead to.
20. Autonomic neuropathy due to diabetes mellitus.
21. Complications of hypertension.
22. How do you prevent the acid aspiration in pregnancy?