

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

March-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 and classify leukemia. Discuss peripheral blood smear, bone marrow and biochemical findings in chronic myeloid leukemia.
2. Enumerate the chronic obstructive pulmonary disease. Classify bronchial asthma. Discuss the pathogenesis of atopic bronchial asthma. Add a note on the sputum findings in bronchial asthma.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Emphysema- definition, type and etiology
4. Hemophilia.
5. Discuss the hazards of blood transfusion.
6. Hemolytic disease of the newborn.
7. Chronic bronchitis.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. List three causes of pulmonary edema.
9. List four pneumoconiosis.
10. List three differences between obstructive and restrictive lung disease.
11. List the causes of eosinophilia.
12. Leucopenia. What is it? Name the causes.
13. Coagulation cascade.
14. Macropolycyte.

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 principle of autoclave. Draw a neat labelled diagram of autoclave. Write a note on types of materials and loading of autoclave.
2. Define disinfectants and antiseptics. Discuss their mode of action. Add a note on evaluation of disinfectants.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. MRSA.
4. Hospital acquired urinary tract infection.
5. Ventilator associated pneumonia.
6. Infections caused by clostridium difficile.
7. Vancomycin resistant enterococci.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Infection control measures in ICU (Any three measures).
9. Disinfection of patient care unit (Any three methods).
10. Ethyl alcohol.
11. Gluteraldehyde.
12. Enumerate bacteria causing nosocomial infection.
13. Prevention of catheter associated blood stream infections (any three measures).
14. Procedure for sterilising operation theatres.

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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 in detail the process of auto calving. Discuss the advantage and disadvantage of the autoclaving.
2. Preoperative preparation of anorectal surgeries, add a note on fistula in ANO surgery.

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Absorbable sutures.
4. Haemostasis.
5. Tourniquet.
6. Alcohol based disinfectants.
7. Hydrogen peroxide.
8. Disposal of sharp instruments/Waste.
9. Oxygen cylinder.
10. Thiopentone sodium.
11. Ropivacaine.
12. Spinal anaesthesia.
13. Types of endotracheal tubes and their indications.
14. Propofol.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Foleys catheter.
16. Use of artery forceps.
17. Isoflurane.
18. Epidural anaesthesia.
19. Brachial plexus block.
20. Supra public cystostomy.
21. Incision and drainage.
22. Sterilisation of linen.
23. Appendisectomy.
24. Methods of collecting specimens.
25. Enema.
26. Gowning.

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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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B.Sc. Operation Theater Technology (OTT)

Time : 3.00 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 general anaesthetic agents. Discuss the mechanism of action, drug interactions, therapeutic uses and adverse effects of halothane.
2. Mention various routes of drug administration. Mention the advantages and disadvantages of oral route.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Lignocaine.
4. Uses of beta blockers.
5. Succinyl choline.
6. Transdermal drug delivery.
7. Pre anaesthetic medications.
8. List the therapeutic uses and adverse effects of morphine.
9. Classify sympathomimetics. List the uses of adrenaline.
10. Glyceryl trinitrate.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Oxethazaine.
12. Pilocarpine.
13. Prodrug.
14. Ketamine.
15. Mention three primary solutions.
16. Merits and demerits of the intravenous route.
17. Nasal decongestants.
18. Plasma $T_{1/2}$.
19. Drotavarine.
20. Tamsulosin.
21. Clearance.
22. Pressor agents.

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