

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 : OTT401CC

LONG ESSAY

2 X 10 = 20 Marks

1. Define Atherosclerosis. Mention the risk factors, Elaborate on pathogenesis and morphology.
2. Describe the etiopathogenesis, renal and extra-renal manifestations of chronic renal failure.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Classify congenital heart diseases. Write a note on Tetralogy of Fallot.
4. Write the types, etiopathogenesis and morphology of renal calculi.
5. Describe the complications of Acute Myocardial infarction.
6. Define Aneurysm. Describe the types.
7. Write a note on physical examination of urine.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Name three crystals in urine.
9. Name three left to right shunt of congenital diseases of heart.
10. Write principle and interpretation of Benedicts test.
11. Mention three causes for pericardial effusion.
12. Mention three complications of artificial valves
13. Write three pathological colour variation of urine with their cause.
14. Write three causes of acute renal failure.

Section – B

Applied Microbiology (50 Marks)

Q.P Code : OTT402CC

(Use separate answer booklet for Section-B)

LONG ESSAY

2 X 10 = 20 Marks

1. List the viral infections that can cause infections in Health care workers. Describe in detail about Hepatitis B infection and add a note on prophylaxis.
2. Enumerate the organisms acquired by oro-fecal route. Describe the pathogenicity, laboratory diagnosis and prophylaxis of Salmonella typhi.

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Varicella zoster.
4. Shigellosis.
5. Life cycle and laboratory diagnosis of Giardiasis.
6. Universal precautions.
7. Microbiological surveillance of OT.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Rinse technique.
9. MRSA.
10. BCG.
11. Moraxella catarrhalis.
12. List three disinfectants used in health care settings.
13. Name the sources and modes of transmission of Ebola virus.
14. Modes of transmission of HIV

B.Sc. Allied Health Sciences Second Year Semester-IV CBCS Scheme

August – 2018 Examination

B.Sc. Operation Theatre Technology (OTT)

Time : 3 Hrs.

Paper – II

[Max. Marks : 100]

Introduction to OT Technology

Q.P Code : OTT403CC

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 causes of fire in the OR? How do you reduce the fire hazard?
2. What are the surgeries done in sitting position? What are the anesthetic implications of sitting position?

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

3. Temperature monitoring.
4. Biological waste-how do you dispose?
5. Chlorhexadine or betadine for skin preparation? And why?
6. TRALI (Transfusion Associated Lung Injury)
7. Contraindications for day care surgeries.
8. Instruments for a major upper abdominal surgery.
9. Scavenging system in the OR.
10. Cleaning blood spills.
11. Robotic surgery.
12. Preparation of the OR for paediatric patient.
13. Mention complications of blood transfusion.
14. Problems with jack knife position.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

15. Indications for blood transfusion.
16. Laminar flow.
17. Advantages of day care surgeries.
18. Fires occurring in the OR.
19. Monitoring depth of anaesthesia.
20. The differences between mainstream and sidestream capnography.
21. Complications of blood pressure monitoring.
22. Central venous pressure monitoring.
23. Coagulation monitoring in the OR.
24. Anaesthesia for day care surgeries.
25. How is an orthopaedic patient prepared for surgery?
26. Enumerate the surgeries done with lithotomy position.

Special Procedures with contrast media reaction and management

Q.P Code : IMT403CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

- 1 List the various gastrointestinal radiographic procedures and describe in detail the patient instruction and pre procedure preparation for each of them.
- 2 Describe in detail about conventional and digital subtraction angiography. Describe briefly about the pressure injector, guide wires and catheters that are used in angiography.

SHORT ESSAY (Answer any Ten)

10 X 5 = 30 Marks

- 3 Hypotonic duodenography.
- 4 Classify radiographic contrast media.
- 5 Water-soluble iodinated contrast enema for reduction of intussusception.
- 6 Adverse contrast reactions in the radiology department.
- 7 Precautions and after-care of patients while performing head and neck arteriography.
- 8 Barium meal follow through.
- 9 Radiation protection. What is ten-day rule?
- 10 Complications of barium swallow.
- 11 Hysterosalpingography.
- 12 Pulmonary arteriography.
- 13 Radioisotope studies of the gastro-intestinal tract.
- 14 Biplane angiography.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

- 15 What are the contrast used in the hysterosalpingography and how will you manage if the patient develop sudden pain in the pelvis after injection of contrast.
- 16 Indications for small bowel enema.
- 17 What is ten day rule in the hysterosalpingography.
- 18 Barium swallow for trachea-oesophageal fistula.
- 19 Contraindications for barium enema.
- 20 List the differences between barium and water-soluble iodinated contrast media.
- 21 How will you prepare the patient before Intravenous Uro - graphy (I.V.U).
- 22 What is double contrast study of colon.
- 23 Emergency drugs and resuscitation equipment in the radiology department.
- 24 What are types of contrasts used intravenously classify them.
- 25 Manual subtraction in angiography.
- 26 Views in coronary arteriography.

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B.Sc. Allied Health Sciences Second Year Semester-IV CBCS Scheme

August 2018 Examination

B.Sc. Operation Theatre Technology (OTT)

Time : 2 Hrs.

Paper - III

[Max. Marks : 40]

Pharmacology

Q.P Code : OTT404CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

1 X 10 = 10 Marks

1. Classify beta lactam antibiotics. Explain the mechanism of action antibacterial spectrum, uses and adverse effects of ampicillin.

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Explain the mechanism of action, uses and adverse effects of verapamil.
3. Explain the mechanism of action, uses and adverse effects of Ciprofloxacin.
4. Explain the mechanism of action, uses and adverse effects of Ranitidine.
5. Explain the mechanism of action, uses and adverse effects of Ondansetron.

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Mention three drugs used in anaphylactic shock.
7. List three drugs of different groups used in hypertension.
8. Write three examples of second generation antihistamines. Mention three uses of the same.
9. Write three examples of diuretics. Mention three uses of the same.
10. Mention three aminoglycosids and their three specific adverse effects.
11. Explain the mechanism of action and write two uses of salbutamol.

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B.Sc. Allied Health Sciences Second Year Semester-IV CBCS Scheme

August 2018 Examination

B.Sc. Operation Theater Technology (OTT)

Time : 2.30 Hrs.

Paper - IV

[Max. Marks : 80]

Medicine Relevant to OT Technology

Q.P Code : OTT405CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify intravenous fluids. Write a note on colloids.
2. Define shock. Classify shock. Describe in detail hypovolemic shock.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. APGAR score.
4. Normal saline as an IV fluid.
5. CVA –etiopathogenesis.
6. Causes of anemia in chronic kidney disease.
7. Clinical features of liver cell failure.
8. Causes of cirrhosis.
9. Pathophysiology of chronic kidney disease.
10. Indications for chest compressions in neonates? And the technique of chest compressions.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Diagnosis of shock-signs and symptoms.
12. Clinical manifestations of chronic kidney disease.
13. How do you investigate liver disease?
14. What are the types of stroke?
15. Stages of CVA.
16. The importance of pre-operative visit in a pediatric patient.
17. What are the causes for chronic kidney disease?
18. How do you treat stroke.
19. Complications of liver disease.
20. Symptoms of simple stroke.
21. Premedication in a child.
22. Risk factors for a stroke.

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