Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 29-May-2024

Time: Three Hours **Max. Marks: 50 Marks**

APPLIED PATHOLOGY – (Sec A)

Q.P. CODE: 3399

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3399 and 3400 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one) **1 x 10 = 10 Marks**

1. **Define anemia. Explain its morphological classification and add a note on Iron deficiency anemia.**
2. What is ischaemic heart disease? Explain the pathology and complications of various types of ischaemic heart disease

SHORT ESSAYS (Answer any five) **5 x 5 = 25 Marks**

3. Write the causes and clinical significances of Cardiomyopathy
4. Differentiate obstructive and restrictive pulmonary disease
5. Explain the role of dialysis and renal transplantation in end stage renal disease
6. Laboratory tests used to diagnose bleeding disorder
7. Describe the hemoglobin estimation and its normal value
8. Explain the pathogenesis and clinical significances of atherosclerosis

SHORT ANSWER (Answer any five) **5 x 3 = 15 Marks**

9. Agranulocytosis
10. Morphological features of Bronchial asthma
11. List four Red cell indices
12. Mention the causes of pericardial effusion
13. Acute Pyelonephritis
14. **Normal value and causes of increased bleeding time**

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 29-May-2024

Time: Three Hours **Max. Marks: 50 Marks**

Applied Microbiology – (Sec B)

Q.P. CODE: 3400

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3399 and 3400 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one) **1 x 10 = 10 Marks**

1. Classify the various instruments used in the hospital and mention the appropriate methods of sterilization.
2. Enumerate the gaseous disinfectants. Describe briefly the gaseous disinfectants employed in operation theatre and in the ICU.

SHORT ESSAYS (Answer any five) **5 x 5 = 25 Marks**

3. Laboratory diagnosis of HIV infection.
4. CSSD layout.
5. Hepatitis A virus morphology and mode of transmission.
6. Describe Hot Air Oven.
7. Mycobacterium tuberculosis - spread, diagnosis and treatment.
8. Laboratory diagnosis of Streptococcus pneumoniae.

SHORT ANSWER (Answer any five) **5 x 3 = 15 Marks**

9. Standard precautions.
10. Varicella zoster.
11. Sterilization indicators.
12. Laboratory diagnosis of Enteric fever.
13. Use of Personal Protective Equipment (PPE).
14. Agents causing ventilator associated pneumonia.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Allied Health Sciences Degree Examination – 29-May-2024

Time: Three Hours **Max. Marks: 50 Marks**

Applied Pathology – (Sec A) - (RS-3)
(Anaesthesia Technology and Operation Technology)
Q.P. CODE: 3404

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3404 and 3405 are to be answered within total duration of 3 hours)

LONG ESSAYS **1 x 10 = 10 Marks**

1. Define acute renal failure and enumerate its causes. Write in brief about the mechanism and laboratory findings of acute renal failure.

SHORT ESSAYS (Question No. 4 choice) **5 x 5 = 25 Marks**

2. Define and enumerate the classification of aneurysms.
3. Define anaemia. Mention the morphological classification of anaemia.
4. Etiopathogenesis and morphology of Bronchiectasis.
   OR
   Briefly write a note on acute leukemias
5. Enumerate the predisposing factors and complications of infective endocarditis.
6. Describe the causes and types of pleural effusion.

SHORT ANSWER (Question No.9 choice) **5 x 3 = 15 Marks**

7. Mention the causes of cardiac hypersensitivity.
8. Haematological picture of Iron deficiency anaemia.
9. List three abnormal shapes of RBC.
   OR
   List three causes of pericardial effusion.
10. Mention three occupational lung diseases.
11. Bleeding time definition and normal values.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Allied Health Sciences Degree Examination – 29-May-2024

Time: Three Hours **Max. Marks: 50 Marks**

Applied Microbiology – (Sec B) (RS-3)
(Anaesthesia Technology and Operation Technology)
Q.P. CODE: 3405

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3404 and 3405 are to be answered within total duration of 3 hours)

LONG ESSAYS **1 x 10 = 10 Marks**

1. Define disinfection. Describe in brief the disinfectants used in the cleaning of anaesthesia equipments and instruments in operation theatres.

SHORT ESSAYS (Question No. 4 choice) **5 x 5 = 25 Marks**

2. Vancomycin Resistant Enterococci its role in hospital associated infection.
3. Hepatitis B virus mode of transmission and pathogenecity.
4. Air Sampling techniques.
   OR
   Ventilator associated pneumonia.
5. Catheter associated urinary tract infection.
6. Infection control measures in ICU.

SHORT ANSWER (Question No.9 choice) **5 x 3 = 15 Marks**

7. Rinse technique.
8. Types of biomedical waste.
9. Biological sterilization control.
   OR
   Collection of urine sample for culture.
10. Needle stick injury.
11. Draw a neat labelled diagram of autoclave.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 04-Jun-2024

Time: Three Hours **Max. Marks: 100 Marks**

Introduction to Anaesthesia & OT Technology

Q.P. CODE: 3391

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Explain detail about epidural anaesthesia, preparation of operation theatre and equipments needed.
2. **What is Retrograde intubation ? What are the indication and contraindications of difficult airway management devices. Add a note on Bougie.**
3. Define Hypoxia. Types of hypoxia. Explain in detail classification of oxygen therapy equipments.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Care of a child in the recovery room after tonsillectomy.
   Or
   Pulse oximetry
5. Stages of anaesthesia.
6. Assisting tracheal intubation. Monitored anaesthesia care.
   Or
   Steps involved in preparing for Tracheal intubation.
7. Precautions during surgery on HIV positive patients.
   Or
   Layout of operation theatre
8. Preparation of OT for lap cholecystectomy.
   Or
   Safety features of anaesthesia machine
9. Functional residual capacity.
10. What are the different methods to confirm the position of endotracheal tube?
11. Classification of muscle relaxants, duration of action and onset.
12. Laryngospasm.
13. Rapid sequence induction.
14. **How to calculate perioperative fluid requirements for paediatric patients**
15. **Classify induction agents. Explain in detail about propofol**

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. What are the uses of $Etco_2$?
17. **Composition of sodalime and Baralyme.**
18. Pethick test.
19. **What are the aims of premedication.**
20. **Furosemide**
21. Blood groups and blood products.

22. Total spinal.
23. Neuromuscular monitoring.
24. HME filter.
25. Sodalime Canister.
26. RAE tubes.
27. Contraindications of spinal anaesthesia.

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II Year B.Sc. Allied Health Sciences Degree Examination – 04-Jun-2024

Time: Three Hours **Max. Marks: 100 Marks**

APPLIED PHARMACOLOGY (RS-3)
(Anaesthesia Technology and Operation Technology)
Q.P. CODE: 3406

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Classify anti anginal drugs. Discuss the mechanism of action, uses and adverse effects of Nitroglycerine.
2. Classify Diuretics. Discuss the mechanism of action, uses and adverse effects of Furosemide.
   OR
   Classify penicillins. Discuss the mechanism of action, uses and adverse effects of Amoxicillin.

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. ACE inhibitors.
4. Salbutamol.
5. Diazepam.
   OR
   Phenobarbitone.
6. Uses and adverse effects of Aspirin.
7. Prazosin.
8. Preanaesthetic Medications.
9. Uses and adverse effects of Glucocorticoids.
10. Ciprofloxacin.
    OR
    Gentamicin.
11. Bioavailability.
12. Metronidazole.

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Mention three uses of beta blockers.
14. Mention three uses of Rifampicin.
15. Name three Immunosuppressants.
    OR
    Name three Atropine substitutes.
16. Rationale of combining Lignocaine + Adrenaline.

17. Mention three uses of Calcium Channel Blockers.
18. Disulfiram.
19. Mention the drug of choice in anaphylactic shock with its dose and route of administration.
20. Mention three uses of Heparin.
    OR
    Name three plasma expanders.
21. **Mention three drugs used in dyslipidemia.**
22. Mention three examples of IV fluids.

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II Year B.Sc. Anaesthesia Technology Degree Examination – 06-Jun-2024

Time: Three Hours **Max. Marks: 100**

INTRODUCTION TO ANAESTHESIA TECHNOLOGY (RS-2)
Q.P. CODE: 1237
(Q.P Contains Two Pages)

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Illustrate with a neat, labelled diagram, the parts of a circle breathing system. List out the components, briefly explaining their purpose in the system. How do we sterilize each component after use?
2. Enlist the Gas laws. Describe any three Gas Laws in detail, with its application in anaesthesia
3. What are the different types of Vapourisers? What safety features do we see in the vapourisers? Add a note on filling, maintenance and Hazards of vapourisers

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. History of the Regional Anaesthesia Era
5. What is Capnography? Explain with respect to
   a) Working principle
   b) A neat, labelled diagram/ graph
   c) Types
   d) Advantages
6. Discuss about pre anesthetic evaluation
7. Colour coding in anesthesia machine
8. Describe the various Oxygen administration devices with neat, labelled diagrams
9. Differentiate Magill's circuit and Bain's circuit with neat, labelled diagrams
10. Protocol for Tracheostomy decannulation
11. Manual resuscitation unit (AMBU)
12. Differentiate Flexo metallic endotracheal tube and RAE tube with neat, labelled diagrams
13. Explain in detail the Golden rules of anaesthesia
14. Illustrate the components of anaesthesia airway trolley and explain purpose of each equipment
15 List out the safety features of the anaesthesia machine, categorizing them into high, intermediate and low pressure systems

16. How do we assess the Patient's airway during PAC? Add a note on Mallampati grading with diagram
17. Bourdon's pressure gauge

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

18. Hagen Poiseuille's law
19. Reservoir bag
20. Atropine
21. Differentiate between Nasopharyngeal airway and Oropharyngeal airway
22. Horace Wells
23. Diameter Indexed Safety System (DISS)
24. Name four inhalational agents with one special use of each
25. Type of Humidifiers. Why do we use them?
26. Sevoflurane
27. What does Beer Lambert's Law state? Mention the sites where the pulse oxymeter probe can be placed
28. Use of a) Glutaraldehyde b) Ethylene Oxide gas
29. Rendell Baker Soucek Mask

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II Year B.Sc. Anaesthesia Technology Degree Examination – 10-Jun-2024

Time: Three Hours **Max. Marks: 80 Marks**

MEDICINE RELEVANT TO ANAESTHESIA TECHNOLOGY (RS-2)
Q.P. CODE: 1238

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Define diabetes mellitus. Enumerate the etiology and write in detail on Type 1 Diabetes Mellitus.
2. Write in detail about hypertension.
3. Define and classify anemia. Write down the indications and complications of blood transfusion.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Obesity classification.
5. Cardiogenic shock.
6. Iron deficiency anemia.
7. Physiological changes in old age.
8. Emphysema.
9. Complications of spinal anaesthesia.
10. Electrocardiogram.
11. Physiological changes in pregnancy.
12. Write a note on endotracheal intubation.

13. Causes of acute renal failure.

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

14. Classify antiarrhythmics.
15. Classify COPD.
16. Defibrillator.
17. Name four beta-blockers.
18. Glucose tolerance test.
19. Uses of Lignocaine.
20. Risk factors of Ischemic heart disease.
21. Hyperthermia.
22. Bronchial asthma.
23. Antiemetic drugs.
24. Central venous pressure.
25. Body mass index.

II Year B.Sc. Operation Theatre Technology Degree Examination – 06-Jun-2024

Time: Three Hours **Max. Marks: 100 Marks**

INTRODUCTION TO OPERATION THEATRE TECHNOLOGY (RS2)
Q.P. CODE: 1241

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Discuss in detail various precaution taken to prevent infection in the O T.
2. What is general anesthesia discuss indications advantages and disadvantages.
3. Blood transfusion – discuss, blood grouping cross matching and transfusion reactions.

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Sterilization of O T.
5. Pre-anesthetic history tacking.
6. Autoclave.
7. Disinfectants.
8. How to take care of sharp instruments during surgery.
9. What is ultrasonic cleaner – mention uses.
10. Waste disposal.
11. Pulse oximeter.
12. Boyles apparatus.
13. What is natural sterilization, mechanism of action.
14. Complication of spinal anesthesia.
15 What are the duties of nurses.
16. Chemical sterilization.
17. Positions of patient in vaginal hysterectomy mention possible injuries.

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SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

18. O T fumigation.
19. Method of scrubbing.
20. HOT AIR OVEN.
21. **Glutaraldehyde.**
22. Iodine.
23. What is antiseptic.
24. What is epidural anesthesia.
25. Mention few disinfectants.
26. How do you sterilize sharp instruments?
27. U V treatment is used in what sterilization.
28. What anesthesia is preferred for excision of cyst over hand.
29. Where do you used lead apron, why?

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II Year B.Sc. Operation Theatre Technology Degree Examination – 10-Jun-2024

Time: Three Hours **Max. Marks: 80 Marks**

MEDICINE RELEVANT TO OPERATION THEATRE TECHNOLOGY (RS-2)
Q.P. CODE: 1242

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Discuss etiopathogenesis, clinical features, investigations and management of community acquired pneumonia
2. Discuss clinical features, investigations and management of myocardial infarction
3. **Discuss the indications and complications of blood transfusion**

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Cor pulmonale
5. Grand mal epilepsy
6. Risk factors of coronary artery disease
7. What is anaphylaxis? Name the drugs that can produce such a reaction
8. Type I diabetes mellitus
9. Causes of acute renal failure
10. Management of ARDS
11. Complications of pulmonary tuberculosis
12. Cardiac arrest and CPR
13. Management of hepatic encephalopathy

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SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

14. Three complications of hypertension
15 Angina pectoris
16. Cyanosis
17. Three causes of haematuria
18. Pneumothorax
19. Signs of cardiac failure
20. Risk factors for stroke
21. Causes of hypertension
22. Proton pump inhibitors
23. Megaloblastic anaemia – causes
24. Mention any four side effects of steroids
25. Cause of hypotension

II Year B.Sc. Allied Health Sciences Degree Examination – 10-Jun-2024

Time: Three Hours **Max. Marks: 100 Marks**

Medicine Relevant to Technology (RS-3)

(Anaesthesia Technology and Operation Theatre Technology)

Q.P. CODE: 3270

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Classify arrhythmias and discuss about their management
2. Discuss in detail physiological changes in pregnancy

OR

Discuss clinical features, investigation and management of congestive cardiac failure

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Enumerate the causes and treatment of chronic renal failure
4. Define and classify anaemia
5. Define heart failure. Add a note on clinical features of heart failure

OR

Causes, symptoms and treatment of Eclampsia

6. Cardiac arrest and CPR
7. Clinical features of hypoglycaemic shock
8. Symptoms and causes of ischemic heart disease
9. Types and causes of Cardiomyopathy
10. Complications of chronic bronchitis

OR

Causes, signs and symptoms and treatment petit mal epilepsy

11. Causes, symptoms and diagnosis of Gestational Diabetes
12. Investigations and treatment of myocardial infarction

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SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Complications of hypertension
14. Complications of obesity
15. Common causes of liver failure
    OR
    Diet advised in chronic renal failure
16. Three causes of Haematuria
17. Types of Cyanosis
18. **Three causes of pleural effusion**
19. Types of Cardiomyopathies
20. X-ray changes in pneumothorax
    OR
    Define Hyper Capnia
21. Causes of Mitral stenosis
22. Resuscitation in polytrauma

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II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 10-Jun-2024

Time: Three Hours **Max. Marks: 100 Marks**

Medicines Relevant to Anaesthesia & OT Technology

Q.P. CODE: 3392

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Explain the common injuries in elderly. List the treatment of common injuries in elderly. Describe the precautions to avoid injuries in elderly.
2. Write in detail physiological changes in pregnancy.
3. Explain the cause of hypertension. Discuss the clinical features, diagnosis and treatment of hypertension.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Status epilepticus – symptoms, causes and treatment.
5. Treatment of chronic bronchitis.
6. Complications of COPD.
7. Renal transplantation.
8. Explain the causes, diagnosis and treatment of Iron deficiency anemia.
9. Classify shock. Explain the causes and treatment of septic shock.
10. Cardiogenic shock – symptoms, causes and treatment.
11. Causes and treatment of congestive heart failure.
12. Indications and complications of blood transfusion.
13. Precautions to be taken while operating on a patient with HBsAg positive status.
14. Complications of myocardial infarction.
15. Clinical features and treatment of hypoglycemia.

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. List three Oral hypoglycemic agents.
17. Gestational diabetes.
18. Define Pre-eclampsia.
19. Clinical features of chronic renal failure.
20. Three complications of liver failure.
21. Autologus blood transfusion.
22. Transfusion Related Acute Lung Injury (ATRALI).
23. Name three causes of Hematuria.
24. Lorazepam – uses, dose and route of administration.
25. Classify intracranial hemorrhage.
26. Treatment of stroke.
27. Adult Respiratory Distress Syndrome (ARDS)

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II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology
Degree Examination – 21-Nov-2024

Time: Three Hours **Max. Marks: 50 Marks**

APPLIED PATHOLOGY – (Sec A)

Q.P. CODE: 3399

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3399 and 3400 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one) **1 x 10 = 10 Marks**

1. Classify anemia and explain in detail about Hemolytic anemia
2. Enumerate the types of chronic obstructive airway disease. Add a note on emphysema

SHORT ESSAYS (Answer any five) **5 x 5 = 25 Marks**

3. Pathogenesis of renal hypertension
4. Laboratory findings in iron deficiency anaemia
5. Pathology and complications of acquired valvular heart disease
6. Explain the mechanism and laboratory diagnosis of acute renal failure
7. Discuss the etiopathogenesis of myocardial infarction
8. Pneumoconiosis

SHORT ANSWER (Answer any five) **5 x 3 = 15 Marks**

9. Risk factors of atherosclerosis
10. List four causes of Polycythemia
11. Prothrombin time
12. Morphology of pulmonary edema
13. Morphologic features of chronic glomerulonephritis
14. Classify leukemia

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II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 21-Nov-2024

Time: Three Hours **Max. Marks: 50 Marks**

Applied Microbiology – (Sec B)

Q.P. CODE: 3400

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3399 and 3400 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one) **1 x 10 = 10 Marks**

1. Describe the central sterile supply department and its functions.
2. Enumerate the different health care associated infections and add a note on catheter related bloodstream infections.

SHORT ESSAYS (Answer any five) **5 x 5 = 25 Marks**

3. MRSA detection and treatment.
4. Moist heat sterilization.
5. Standard precautions.
6. Gaseous sterilization.
7. Air sampling.
8. Mycobacterium tuberculosis – Spread, Diagnosis and treatment.

SHORT ANSWER (Answer any five) **5 x 3 = 15 Marks**

9. Importance of handwashing.
10. OAUGDP.
11. Name thee viruses transmitted by blood transfusion.
12. Herpes simplex viruses – mode of spread and prevention.
13. Mention three high level disinfecting and sterilizing areas.
14. Three agents causing ventilator associated Pneumonia.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Allied Health Sciences Degree Examination – 21-Nov-2024

Time: Three Hours **Max. Marks: 50 Marks**

APPLIED PATHOLOGY – (Sec A) - (RS-3)
(Anaesthesia Technology and Operation Technology)
Q.P. CODE: 3404

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3404 and 3405 are to be answered within total duration of 3 hours)

LONG ESSAYS **1 x 10 = 10 Marks**

1. Define and list the ischemic heart disease. Explain myocardial infarction in detail.

SHORT ESSAYS (Question No. 4 choice) **5 x 5 = 25 Marks**

2. Describe etiology and pathogenesis of chronic bronchitis.
3. Define and classify leukemia.
4. Name two types of pneumoconiosis and explain any one types in detail.
   OR
   Define pathogenesis of emphysema.
5. Write about chronic pyelonephritis mechanism and clinical manifestations.
6. Explain the causes and mechanism of acute renal failure.

SHORT ANSWER (Question No.9 choice) **5 x 3 = 15 Marks**

7. What are the complications of renal stones?
8. List the causes of aneurysm.
9. Write three causes for ESRD (End Stage Renal Disease).
   OR
   Name the morphological types of anemia.
10. Name three bleeding disorders and its lab tests.
11. Write three causes of pleural effusion.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Allied Health Sciences Degree Examination – 21-Nov-2024

Time: Three Hours **Max. Marks: 50 Marks**

Applied Microbiology – (Sec B) (RS-3)
(Anaesthesia Technology and Operation Technology)
Q.P. CODE: 3405

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary
(Note: Both QP Codes 3404 and 3405 are to be answered within total duration of 3 hours)

LONG ESSAYS **1 x 10 = 10 Marks**

1. Enumerate the viral infections transmitted through blood. Describe in detail morphology of HIV and laboratory diagnosis of HIV infection

SHORT ESSAYS (Question No. 4 choice) **5 x 5 = 25 Marks**

2. Uses of autoclaving
3. Staphylococcus aureus infections
4. Prevention of hospital acquired infection
   OR
   Pathogens causing hospital acquired infections
5. Hepatitis B virus infection – modes of spread and its prevention
6. Ventilator associated pneumonia

SHORT ANSWER (Question No.9 choice) **5 x 3 = 15 Marks**

7. Gaseous sterilisation
8. Name three clinically important species of mycobacterium
9. Name three infections causes by Salmonella
   OR
   Name three infections caused by Clostridium
10. Pathogens causing UTI – any three
11. Hand washing technique

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II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 26-Nov-2024

Time: Three Hours **Max. Marks: 100 Marks**

Introduction to Anaesthesia & OT Technology

Q.P. CODE: 3391

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Biomedical waste colour coding
2. Discuss the process of E.T.O. sterilization in detail
3. Explain the different types of laryngoscopes

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Ambu bag
5. Describe the preparation of trolley for spinal anaesthesia
6. Intubation devices
7. Oxygen therapy
8. Defibrillator
9. **American society of Anesthesiology(ASA) classification.**
10. Universal precautions
11. Causes of hypothermia in surgical patients and its management
12. Precautions during intra-hospital transfer of patients
13. Glutaraldehyde
14. Fire in operation theatre-causes and precautions
15. Describe Moist heat sterilization in detail

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. What are the drawbacks of ethylene oxide sterilization?
17. Propofol
18. Electro Cardiogram (ECG)
19. Bain's circuit
20. Soda lime
21. Fentanyl
22. Pressure regulator
23. Sevoflurane
24. Oxygen face mask
25. Non invasive blood pressure
26. Stylet
27. Basic life support (BLS)

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Allied Health Sciences Degree Examination – 26-Nov-2024

Time: Three Hours **Max. Marks: 100 Marks**

APPLIED PHARMACOLOGY (RS-3)
(Anaesthesia Technology and Operation Technology)
Q.P. CODE: 3406

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Classify antihypertensive drugs. Discuss the mechanism of action, uses and adverse effects of ACE inhibitors.
2. Classify general anaesthetics. Discuss the pharmacological actions and adverse effects of halothane.

   OR

   Classify local anaesthetics. Discuss the pharmacological actions, uses and adverse effects of Lignocaine.

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Uses and adverse effects of corticosteroids.
4. Loop diuretics.
5. Morphine.

   OR

   Aspirin
6. **First line anti tubercular drugs.**
7. Nitroglycerin.
8. Digoxin.
9. Adrenaline.
10. Depolarising blockers

    OR

    Pre anaesthetic medications.
11. **Classify anti coagulants and explain any one of anti-coagulant.**
12. Hypolipidemic drugs.

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Anti histamines.
14. Drugs used in status asthmaticus.
15. Uses of diazepam.

    OR

    Uses of beta blockers.
16. Name any two penicillin preparations and two uses.
17. Mucolytics.
18. Drugs used in shock.
19. Intravenous route.
20. Advantages of inhalational route.

    OR

    Skeletal muscle relaxants.
21. Osmotic diuretics.
22. Cardioplegic solutions.

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II Year B.Sc. Anaesthesia Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100**

INTRODUCTION TO ANAESTHESIA TECHNOLOGY (RS-2)
Q.P. CODE: 1237

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe safety features (Anti-hypoxia) which are provided in an anaesthesia machine?
2. Describe indications for tracheostomy tube placement. Describe the care of tracheostomy tube. Describe complications associated with long term use of tracheostomy
3. Describe normal capnography waveform. Describe 5 $EtCO_2$ (end –tidal carbon dioxide) waveforms with diagram

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. O_2 (oxygen) flush
5. History of inhalational anaesthesia
6. Mapleson D circuit (Bains)
7. Yoke hanger assembly
8. Nasopharyngeal airways
9. Intraoperative monitoring during anaesthesia
10. Goals of O_2 therapy
11. Diameter Index Safety System (DISS)
12. Facemask – types and uses, advantages and disadvantages
13. AMBU bag
14. Colour coding for cylinders
15. Double lumen tube
16. Oxygen failure protection device in anaesthesia machine
17. Vaporizer

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

18. Parts of ET tube
19. Nasal prongs
20. Venturi mask
21. Cylinder pressure gauge (Bourdon pressure gauge)
22. N_2O cylinder contents
23. Chemical sterilisation technique
24. **Types of Hypoxia.**
25. Jackson Rees circuit
26. Airway maintenance after anaesthesia
27. Laryngoscope
28. Boyles law
29. Pressure relief valve in anaesthesia machine

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Operation Theatre Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100 Marks**

Introduction to Operation Theatre Technology (RS 2)
Q.P. CODE: 1241

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. What is CSSD? Explain in detail about each functioning sections of CSSD with a neatly marked layout/diagram.
2. Draw a neat labelled diagram of an Endotracheal Tube and upper respiratory tract. Mention the steps of Endotracheal Intubation. What are the methods to confirm successful intubation?
3. What are the different intraoperative monitoring techniques? Explain in detail about central venous pressure monitoring.

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Minimum alveolar concentration.
5. Hand washing technique.
6. Biomedical waste management and waste segregation inside OT.
7. Flash Autoclave.
8. Difference between Supine and Prone position.
9. Nitrous Oxide Cylinder.
10. Electrocautery.
11. What are the different types laryngoscopes? Explain about McCoy laryngoscope with a neat labelled diagram.
12. WTG Morton.
13. Chemical sterilization method.
14. Ringer Lactate Fluid.
15. How will you safely handle and maintain a surgical microscope?
16. Difference between absorbable and non absorbable sutures.
17. Compare lignocaine and Bupivacaine.

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

18. Anxiolytics.
19. Sevoflurane.
20. Lignocaine 2%.
21. Body warmer.
22. EMLA cream.
23. Bains Circuit.
24. Oral airways.
25. Foleys catheter.
26. Glycopyrrolate.
27. Complications of invasive blood pressure monitoring techniques.
28. Personal protective equipment (PPE) used inside operating room.
29. Cis Atracurium.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100**

Introduction to Anaesthesia Technology (RS-3)

Q.P. CODE: 3268

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Explain in detail the duties of Nurse posted to the operation theater
2. Describe the cycle of operation for a low temperature steam formaldehyde sterilization
   OR
   Anaesthesia machine and its safety features

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Mayo stand
4. Bains circuit
5. Electrical powered instruments
   OR
   Laryngoscope
6. Operation theatre lighting
7. Ultraviolet irradiation
8. Pulse oximeter
9. Central venous pressure
10. Grasping and holding instruments
    OR
    Oral airways
11. Urinary output
12. Duties of circulatory nurse

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Name two surgeries where lateral position of patient is required
14. Describe the position of patient for total hip replacement
15. What is the temperature required for pasteurization?
    OR
    Bupivacaine
16. Name any four synthetic non-absorbable suture / ligatures
17. Name the areas to be prepared for surgery on anal region
18. Pulse oxymeter
19. Name any two indications for diagnostic laparoscopy in women
20. Name any two metals suitable for surgical implants
    OR
    Lumbar puncture needle
21. What is cardiac massage?
22. Name the use of cylinder valves

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100 Marks**

Applied Pharmacology

Q.P. CODE: 3401

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Classify antihypertensives drugs. Discuss the pharmacological actions, adverse effects and use of ACE inhibitors.
2. Classify general anaesthetics. Discuss the pharmacokinetics and pharmacodynamics of halothane (inhalational anaesthetics).
3. Classify opioid analgesics and explain pharmacological actions, adverse reactions and uses of morphine.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Aspirin.
5. Lignocaine.
6. Digoxin.
7. Classify anticoagulants.
8. **Name any two skeletal muscle relaxants and discuss actions and uses of any one.**
9. Pencillin preparations.
10. Classify antitubercular drugs.
11. Bronchodilators.
12. Pre anaesthetic medications.
13. Glyceryl trinitrate.
14. Diazepam.
15. Name any two corticosteroids and mention uses.

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Statins.
17. Cardioplegic solutions.
18. Mucolytics.
19. Name any two antihistamines and two uses.
20. Cardio selective beta blockers.
21. Name any two diuretics and two uses.
22. Mention two medical uses of alcohols.
23. Mention two uses and two side effects of tetracycline.
24. Name two drugs used in shock.
25. Name two IV fluids.
26. Name two emergency drugs.
27. Name any two thrombolytic agents and two uses.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Operation Theatre Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100 Marks**

Introduction to Anaesthesia & OT Technology (RS-3)

Q.P. CODE: 3407

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Describe all the different patient positions. Explain in detail about prone position – Indications, complications.

2. List out all the physical methods of sterilization. Explain in detail about hot air oven.
   OR
   List out all the chemical methods of sterilization. Explain the aldehydes used for sterilization in detail.

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Absolute and relative contraindications of spinal anaesthesia.
4. List various types of blood grouping. Explain the indications of blood transfusion.
5. Succinyl choline.
   OR
   Intravenous induction agents.
6. Explain the zones of OT and describe briefly OT sterilization.
7. Explain the biomedical waste management in OT.
8. Explain intraoperative patient monitoring with respect to a) $ETCO_2$ b) ECG
9. Explain gowning and gloving techniques in detail.
10. Preoperative patient preparation.
    OR
    Postoperative patient care.
11. ETO sterilization.
12. Instrument trolley setup for LSCS procedure.

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Spinal needles.
14. Indications for Foley's catheterization.
15. **Types of ET tubes**
    OR
    List three supraglottic airway devices.
16. Anatomical face mask.
17. Non Invasive Blood Pressure (NIBP).
18. List three premedication drugs.
19. Nitrous oxide.
20. Flash sterilization.
    OR
    List the use of a) BP handle b) Langenbeck Retractor
21. Propofol.
22. Myopyrolate.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100**

INTRODUCTION TO ANAESTHESIA TECHNOLOGY (RS-2)
Q.P. CODE: 1237

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe safety features (Anti-hypoxia) which are provided in an anaesthesia machine?
2. Describe indications for tracheostomy tube placement. Describe the care of tracheostomy tube. Describe complications associated with long term use of tracheostomy
3. Describe normal capnography waveform. Describe 5 $EtCO_2$ (end –tidal carbon dioxide) waveforms with diagram

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. O_2 (oxygen) flush
5. History of inhalational anaesthesia
6. Mapleson D circuit (Bains)
7. Yoke hanger assembly
8. Nasopharyngeal airways
9. Intraoperative monitoring during anaesthesia
10. Goals of O_2 therapy
11. Diameter Index Safety System (DISS)
12. Facemask – types and uses, advantages and disadvantages
13. AMBU bag
14. Colour coding for cylinders
15. Double lumen tube
16. Oxygen failure protection device in anaesthesia machine
17. Vaporizer

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

18. Parts of ET tube
19. Nasal prongs
20. Venturi mask
21. Cylinder pressure gauge (Bourdon pressure gauge)
22. N_2O cylinder contents
23. Chemical sterilisation technique
24. **Types of Hypoxia.**
25. Jackson Rees circuit
26. Airway maintenance after anaesthesia
27. Laryngoscope
28. Boyles law
29. Pressure relief valve in anaesthesia machine

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Operation Theatre Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100 Marks**

Introduction to Operation Theatre Technology (RS 2)
Q.P. CODE: 1241

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. What is CSSD? Explain in detail about each functioning sections of CSSD with a neatly marked layout/diagram.
2. Draw a neat labelled diagram of an Endotracheal Tube and upper respiratory tract. Mention the steps of Endotracheal Intubation. What are the methods to confirm successful intubation?
3. What are the different intraoperative monitoring techniques? Explain in detail about central venous pressure monitoring.

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Minimum alveolar concentration.
5. Hand washing technique.
6. Biomedical waste management and waste segregation inside OT.
7. Flash Autoclave.
8. Difference between Supine and Prone position.
9. Nitrous Oxide Cylinder.
10. Electrocautery.
11. What are the different types laryngoscopes? Explain about McCoy laryngoscope with a neat labelled diagram.
12. WTG Morton.
13. Chemical sterilization method.
14. Ringer Lactate Fluid.
15. How will you safely handle and maintain a surgical microscope?
16. Difference between absorbable and non absorbable sutures.
17. Compare lignocaine and Bupivacaine.

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

18. Anxiolytics.
19. Sevoflurane.
20. Lignocaine 2%.
21. Body warmer.
22. EMLA cream.
23. Bains Circuit.
24. Oral airways.
25. Foleys catheter.
26. Glycopyrrolate.
27. Complications of invasive blood pressure monitoring techniques.
28. Personal protective equipment (PPE) used inside operating room.
29. Cis Atracurium.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100**

Introduction to Anaesthesia Technology (RS-3)

Q.P. CODE: 3268

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Explain in detail the duties of Nurse posted to the operation theater
2. Describe the cycle of operation for a low temperature steam formaldehyde sterilization
   OR
   Anaesthesia machine and its safety features

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Mayo stand
4. Bains circuit
5. Electrical powered instruments
   OR
   Laryngoscope
6. Operation theatre lighting
7. Ultraviolet irradiation
8. Pulse oximeter
9. Central venous pressure
10. Grasping and holding instruments
    OR
    Oral airways
11. Urinary output
12. Duties of circulatory nurse

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Name two surgeries where lateral position of patient is required
14. Describe the position of patient for total hip replacement
15. What is the temperature required for pasteurization?
    OR
    Bupivacaine
16. Name any four synthetic non-absorbable suture / ligatures
17. Name the areas to be prepared for surgery on anal region
18. Pulse oxymeter
19. Name any two indications for diagnostic laparoscopy in women
20. Name any two metals suitable for surgical implants
    OR
    Lumbar puncture needle
21. What is cardiac massage?
22. Name the use of cylinder valves

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100 Marks**

Applied Pharmacology

Q.P. CODE: 3401

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Classify antihypertensives drugs. Discuss the pharmacological actions, adverse effects and use of ACE inhibitors.
2. Classify general anaesthetics. Discuss the pharmacokinetics and pharmacodynamics of halothane (inhalational anaesthetics).
3. Classify opioid analgesics and explain pharmacological actions, adverse reactions and uses of morphine.

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Aspirin.
5. Lignocaine.
6. Digoxin.
7. Classify anticoagulants.
8. **Name any two skeletal muscle relaxants and discuss actions and uses of any one.**
9. Pencillin preparations.
10. Classify antitubercular drugs.
11. Bronchodilators.
12. Pre anaesthetic medications.
13. Glyceryl trinitrate.
14. Diazepam.
15. Name any two corticosteroids and mention uses.

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Statins.
17. Cardioplegic solutions.
18. Mucolytics.
19. Name any two antihistamines and two uses.
20. Cardio selective beta blockers.
21. Name any two diuretics and two uses.
22. Mention two medical uses of alcohols.
23. Mention two uses and two side effects of tetracycline.
24. Name two drugs used in shock.
25. Name two IV fluids.
26. Name two emergency drugs.
27. Name any two thrombolytic agents and two uses.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Operation Theatre Technology Degree Examination – 28-Nov-2024

Time: Three Hours **Max. Marks: 100 Marks**

Introduction to Anaesthesia & OT Technology (RS-3)

Q.P. CODE: 3407

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Describe all the different patient positions. Explain in detail about prone position – Indications, complications.

2. List out all the physical methods of sterilization. Explain in detail about hot air oven.
   OR
   List out all the chemical methods of sterilization. Explain the aldehydes used for sterilization in detail.

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Absolute and relative contraindications of spinal anaesthesia.
4. List various types of blood grouping. Explain the indications of blood transfusion.
5. Succinyl choline.
   OR
   Intravenous induction agents.
6. Explain the zones of OT and describe briefly OT sterilization.
7. Explain the biomedical waste management in OT.
8. Explain intraoperative patient monitoring with respect to a) $ETCO_2$ b) ECG
9. Explain gowning and gloving techniques in detail.
10. Preoperative patient preparation.
    OR
    Postoperative patient care.
11. ETO sterilization.
12. Instrument trolley setup for LSCS procedure.

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Spinal needles.
14. Indications for Foley's catheterization.
15. **Types of ET tubes**
    OR
    List three supraglottic airway devices.
16. Anatomical face mask.
17. Non Invasive Blood Pressure (NIBP).
18. List three premedication drugs.
19. Nitrous oxide.
20. Flash sterilization.
    OR
    List the use of a) BP handle b) Langenbeck Retractor
21. Propofol.
22. Myopyrolate.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology Degree Examination – 02-Dec-2024

Time: Three Hours **Max. Marks: 80 Marks**

MEDICINE RELEVANT TO ANAESTHESIA TECHNOLOGY (RS-2)
Q.P. CODE: 1238

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Define and write the causes of chronic renal failure with treatment. Write a note on renal transplantation.
2. What is shock? Mention the causes of shock and write in detial the management of shock.
3. Explain the etiology, clinical features, investigations and management of iron deficieny anaemia.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Chronic bronchitis.
5. Oral glucose tolerance test.
6. Complications of obesity.
7. Laryngeal mask airway.
8. Peri-operative management of ischemic heart disease.
9. Physiological changes in pregnancy.
10. Treatment of Type II Diabetes Mellitus.
11. Difference between adult and pediatric larynx.
12. Complications of blood transfusion.,
13. Hemodialysis.

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

14. Nitrous oxide.
15. Spinal needle.
16. Juvenile diabetes mellitus.
17. Cardiogenic shock.
18. Hypoxemia.
19. APGAR score.
20. Mechanism of action of local anaesthetics.
21. Analgesics.
22. Non invasive blood pressure monitoring.
23. Megaloblasticanemia.
24. Name four IV fluids used in OT.
25. Diuretics.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Operation Theatre Technology Degree Examination – 02-Dec-2024

Time: Three Hours **Max. Marks: 80 Marks**

MEDICINE RELEVANT TO OPERATION THEATRE TECHNOLOGY (RS-2)
Q.P. CODE: 1242

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Define shock. Mention the causes and types of shock and its management
2. Classify intracranial bleed. Discuss in detail about, clinical features, investigation and treatment of subdural hematoma
3. Discuss physiological changes in pregnancy

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. CPR
5. Status epilepticus
6. Chronic bronchitis
7. Emphysema
8. Difficult intubation
9. Pre operative evaluation
10. Types of insulin
11. Spinal anaesthesia
12. Gestational diabetes
13. Problems in OT with an obese patient

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

14. Risk factors for stroke
15 Branchodilators
16. Capnography
17. Transient ischemic attack
18. Geriatric anaesthesia
19. Septic shock
20. COPD
21. Paediatric anaesthesia
22. Vital capacity
23. Any four antiepileptic drugs
24. Uses of atropine
25. Insulin

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Allied Health Sciences Degree Examination – 02.12.2024

Time: Three Hours **Max. Marks: 100 Marks**

Medicine Relevant to Technology (RS-3)

(Anaesthesia Technology and Operation Theatre Technology)

Q.P. CODE: 3270

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Discuss the aetiology and management of intraoperative hypotension
2. Advanced cardiac life support and recent guidelines

   OR

   Discuss the causes and management of post operative hypoxia

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Types of Arrhythmias, its causes and symptoms
4. Define hypothermia. Explain various methods of warming a hypothermic patient
5. What is shock? Mention different types of shock and its management

   OR

   Explain in detail about coronary heart disease
6. Clinical manifestation of chronic renal failure
7. Causes, signs and symptoms of Corpulmonale
8. Causes of cirrhosis of liver and its complications
9. Investigations and management of diabetic mellitus
10. Investigations and management of bronchial asthma

    OR

    Common medical conditions in elderly patients
11. Treatment of COPD
12. Clinical features and treatment of iron deficiency anaemia

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Drugs used in grand mal epilepsy
14. Risk factors of stroke
15. Treatment of hypertension

    OR

    Features of acute circulatory failure
16. Complications of obesity
17. Diagnosis of diabetic mellitus
18. Signs of anaemia
19. Hypovolemic shock
20. Define jaundice

    OR

    Define COPD
21. Mention the symptoms of angina pectoris
22. Three complications of hypertension

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology
Degree Examination – 02-Dec-2024

Time: Three Hours **Max. Marks: 100 Marks**

Medicines Relevant to Anaesthesia & OT Technology
Q.P. CODE: 3392

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two) **2 x 10 = 20 Marks**

1. Diagnosis and management of CVA
2. Describe anemia and explain iron deficiency anemia in detail
3. Explain primary hypertension. Add a note on the treatment of hypertension

SHORT ESSAYS (Answer any ten) **10 x 5 = 50 Marks**

4. Write in detail about infective endocarditis
5. Hypothyroidism – symptoms, causes and treatment
6. Bronchial asthma – symptoms, diagnosis and treatment
7. Septic shock – symptoms, causes, diagnosis and treatment
8. Pneumonia – causes, types and management of prevention
9. Liver abscess – symptoms, diagnosis and treatment
10. Urinary tract infections – signs, symptoms, diagnosis and treatment
11. Causes, symptoms and management of Pleural effusion
12. Alcoholic liver disease
13. Treatment of COPD
14. Common surgical procedures in elderly patients
15. Gestational diabetes

SHORT ANSWER (Answer any ten) **10 x 3 = 30 Marks**

16. Diet advised in hypertension
17. Phenytoin sodium – uses, dose and route of administration
18. Clinical features of liver cirrhosis
19. Risk factors for angina pectoris
20. Electro Encephalogram (EEG)
21. Haemorrhagic stroke
22. Types of shock
23. Types of cyanosis
24. Describe Emphysema
25. Three causes of haemolytic anaemia
26. Complications of myocardial infarction
27. Causes of Polycythemia

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Allied Health Sciences Degree Examination – 02.12.2024

Time: Three Hours **Max. Marks: 100 Marks**

Medicine Relevant to Technology (RS-3)

(Anaesthesia Technology and Operation Theatre Technology)

Q.P. CODE: 3270

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Question No.2 Choice) **2 x 10 = 20 Marks**

1. Discuss the aetiology and management of intraoperative hypotension
2. Advanced cardiac life support and recent guidelines

   OR

   Discuss the causes and management of post operative hypoxia

SHORT ESSAYS (Question No.5 & 10 choice) **10 x 5 = 50 Marks**

3. Types of Arrhythmias, its causes and symptoms
4. Define hypothermia. Explain various methods of warming a hypothermic patient
5. What is shock? Mention different types of shock and its management

   OR

   Explain in detail about coronary heart disease
6. Clinical manifestation of chronic renal failure
7. Causes, signs and symptoms of Corpulmonale
8. Causes of cirrhosis of liver and its complications
9. Investigations and management of diabetic mellitus
10. Investigations and management of bronchial asthma

    OR

    Common medical conditions in elderly patients
11. Treatment of COPD
12. Clinical features and treatment of iron deficiency anaemia

SHORT ANSWER (Question No. 15 & 20 choice) **10 x 3 = 30 Marks**

13. Drugs used in grand mal epilepsy
14. Risk factors of stroke
15. Treatment of hypertension

    OR

    Features of acute circulatory failure
16. Complications of obesity
17. Diagnosis of diabetic mellitus
18. Signs of anaemia
19. Hypovolemic shock
20. Define jaundice

    OR

    Define COPD
21. Mention the symptoms of angina pectoris
22. Three complications of hypertension

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