Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology Degree Examination – Aug / Sep 2011

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

INTRODUCTION TO ANAESTHESIA TECHNOLOGY (RS)

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 briefly types of hypoxemia, its management & hazards of oxygen therapy?
2. Classify breathing system, Explain briefly about Bain circuit.
3. Types of shock & its management.

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

4. Types of airways, its indications and complications on long term use.
5. Assessment of patient and preparation.
6. Pin index system.
7. Capnographs.
8. W.T.G Morton.
9. Types of laryngoscopes.
10. Flow meter.
11. Air Compressor.
12. John snow.
13. Oxygen Flush.
14. Cylinder pressure gauge
15. Intubation drill
16. Epidural set
17. Oxygen concentrators

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

18. Bernoulli principle and its clinical application.
19. Tracheostomy set.
20. Dead space.
21. Soda lime.
22. End tracheal tube.
23. Blood loss measurement.
24. Pre historic era.
25. Temperature conversion.
26. Hazards of manual resuscitators.
27. Reducing valves.
28. Entonox and its uses.
29. Non rebreathing valves.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Anaesthesia Technology Degree Examination – Aug / Sep 2011

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

MEDICINE RELEVANT TO ANAESTHESIA TECHNOLOGY (RS)

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. Mention the causes of anemia. Describe signs and symptoms of iron deficiency anemia
2. Signs and symptoms of myocardial ischemia
3. Etiology and management of chronic renal failure

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

4. Types of epilepsy
5. Causes for cerebrovascular accidents
6. Pre eclampsic toxemia (PFT)
7. Colloids for volume replacement
8. Physiological changes in respiratory system of elderly patients
9. Differences between adult and paediatric airway
10. Signs and symptoms of liver failure
11. Complications of obesity
12. Oral anti diabetic medications
13. Neonatal resuscitation

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

14. Sodabicarb
15. Aminophylline
16. Hepatorenal syndrome
17. Secondary causes for hypertension
18. Liver function tests
19. Dobutamine
20. Phenytoin sodium
21. Dyspnea
22. Emphysema
23. Cardiovascular changes of pregnancy
24. Causes for obesity
25. ACE inhibitors

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Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Anaesthesia Technology Degree Examination – Feb/March 2011

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

INTRODUCTION TO ANAESTHESIA TECHNOLOGY (RS)

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. How do you classify breathing circuits? Describe in detail about Bain's breathing system
2. Describe the different sterilization methods
3. Describe in detail the types, sizes and uses of anesthesia masks

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

4. Hazards of vapourizers
5. Capnograph
6. Methods to increase oxygen delivery while using resuscitator bags
7. Indications for airways
8. Complication of endotracheal intubation
9. Regional anaesthesia era
10. Ten golden rules of anesthesia
11. Flow meter
12. Colour coding
13. Clinical signs of hypoxia
14. Oxygen mask
15. Patient preparation for anaesthesia
16. Types of endotracheal tubes
17. Classify hypoxia

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

18. John Snow
19. How do you sterilize airways?
20. Baralime
21. Cylinder pressure guage
22. Farmaldehyde
23. Venture principle
24. Cylinder storage
25. Alarms in anaesthesia machine
26. Gas pipeline system
27. Evaluation of patient receiving oxygen therapy
28. Reducing valves
29. How do you convert temperature form °C to °F?

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Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Anaesthesia Technology Degree Examination – Feb/March 2011

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

MEDICINE RELEVANT TO ANAESTHESIA TECHNOLOGY (RS)

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. Perioperative management of patients with Ischaemic Heart Disease.
2. Physiological considerations and anaesthetic challenges in managing obese patients.
3. Pre op evaluation, Intra operative management and Post operative care of patients with Diabetes Mellitus.

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

4. Uteroplacental circulation and anaesthetic drugs.
5. Organ function changes in gesiatric patients.
6. Anaesthetic considerations in an epileptic patient.
7. Classification of hypertension.
8. Hypovolemic shock.
9. Pro operative preparation of COPD patients.
10. Hypoxaemia.
11. Classification of Chronic Hepatitis.
12. TURP Syndrome.
13. Hypotension during anaesthesia.

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

14. Self protection prophylaxis in hives disease.
15. Oral anticoagulant and Regional anaesthesia.
16. What is Hypoxaemia?
17. Central Venons Pressure.
18. What is stiff joint syndrome?
19. Physiological anaemia of neonate.
20. I.V. fluid guidelines in uremic patient.
21. Blood gas analysis.
22. Preferred muscle relaxant used in chronic renal disease.
23. Defribrilator.
24. Name arrythmias that occur during anaesthesia.
25. Positioning in thoracotomy.

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Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Operation Theatre Technology Degree Examination – Feb/March 2011

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

MEDICINE RELEVANT TO OPERATION THEATRE TECHNOLOGY (RS)

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. Diagnosis and management of Obesity.
2. Diagnosis and management of Chronic Renal failure.
3. Diagnosis and management of Epilepsy.

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

4. Liver function test.
5. Electrogardiogram.
6. Third stage of Labour.
7. Drug therapy of hypertension.
8. Sensory milestones of a child.
9. Problems of bottle feeding.
10. Hypovolemic shock.
11. Glucose Tolerance test.
12. Oral hypoglycemic agents.
13. Thrombolysis in acute myocardial infraction.

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

14. Thrombotic stroke.
15. Megaloblastic anemia- blood picture.
16. Morbid obesity.
17. Incentive spirometry.
18. Define bronchial asthma.
19. Hypoglycemic coma.
20. ACE Inhibitors.
21. Types of Insulin.
22. Management of acute exacerbation of bronchial asthma.
23. Tidal volume.
24. Immunization of a pregnant lady.
25. Types of Jaundice.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Operation Theatre Technology Degree Examination – Aug / Sep 2011

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

INTRODUCTION TO OPERATION THEATRE TECHNOLOGY (RS)

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 the various methods of Sterilization.
2. Blood Transfusion reactions.
3. Surgical Asepsis.

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

4. Care of microsurgical instruments.
5. Care during dusting of an operation room.
6. Blood Groups.
7. Lithotomy position.
8. Head light.
9. Laryngoscope.
10. Local anesthesia.
11. ECG moitor.
12. Lead Apron.
13. Gauze count.
14. Behaviour of an assistant during surgery.
15. Postoperative care of a surgical patient.
16. Laminar air flow- principle.
17. Preoperative Scrubbing of a patient.

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

18. Mention two things that can be sterilized exclusively by a hot air oven.
19. Halothane.
20. Vulsellum.
21. Difference between a Knife and a Scalpel.
22. Removal of rust spots.
23. Lansteiners Law.
24. Babcock forceps.
25. Hand scrubbing.
26. Chlorhexidine.
27. Lubrication of instruments.
28. Informed consent.
29. Hydrogen peroxide.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Operation Theatre Technology Degree Examination – Aug / Sep 2011

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

MEDICINE RELEVANT TO OPERATION THEATRE TECHNOLOGY (RS)

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. Enumerate various types of shock. Discuss pathophysiology and management of septic shock
2. Enumerate etiology of CVA. Discuss pathophysiology and management of subarachnoid haemorrhage
3. Etiology of the ischemic heart disease. Management of acute myocardial infarction

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

4. Chronic bronchitis
5. Hemothorax
6. Status epilepticus
7. Malignant hypertension
8. Transient ischemic attack (TIA)
9. Puerpueral sepsis
10. Hepatorenal syndrome
11. Acute viral hepatitis
12. Heredirary spherocytosis
13. Grand mal seizures

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

14. Mention various causes of secondary hypertension
15. Types of angina pectoris
16. Symptoms of heptic coma
17. Subdural haematoma
18. Etiology of chronic renal failure
19. Types of viral hepatitis
20. Cholelithiasis
21. Centra venous pressure
22. Peripheral smear in iron deficiency anemia
23. Sickel cell anemia
24. Syncope
25. Abruptco placenta

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