Rajiv Gandhi University of Health Sciences, Karnataka

Third Year B.Sc Operation Theatre Technology Degree Examination – Feb/March 2011

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

CLINCIAL OPERATION THEATRE TECHNOLOGY

Paper – I (RS)

Q.P. CODE: 2926

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 sterilization. Write the different types of sterilization used to sterilze O T equipment
2. what is radiation Hazards? How do you avoid them in the O.T.?
3. What is monitoring? What are the monitorning you do intraoperatively and postoperatively?

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

4. What is local anaesthesia? What are the drugs you know as local anaestheics?
5. What is isolyte-P and what is isolyte-G
6. What are the disinfectant solutions most commonly used in the O T
7. What are the precautions you take when you put a patient in a prone position?
8. What is chemical disnfction?
9. What is documentation?
10. What is regional anaesthesia? What are the types of regional anaesthesia you know
11. What are the differences between blood and plasma?
12. What are the duties of scrub nurse and circulating nurse?
13. What is a hypnotic and what is a radiation? Six example
14. What precations you take to avoid hypothermia in paediatric cases.
15. What are colloids and what are crystalloids in I V fluids.

SHORT ANSWERS **10 x 3 = 30 Marks**

16. What is an ampule and what is an vial?
17. Who is hyperthermia?
18. What is nitrous oxide?
19. WHAT IS HAEMOSTASIS?
20. What is sleep and whaat is an conscious?
21. What is ABG?
22. What is draping?
23. What are the volatile anaesthetic agents?
24. What is the meaning of Ambulatory patient?
25. What is the pre-operative and what is perioperative?
26. Who is an infection control coordinator?
27. What do you mean by an volatile agent?

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

APPLIED OPERATION THEATRE TECHNOLOGY
Paper -II (Revised Scheme)

Q.P. CODE: 2927

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. Blood transfusion products – briefly discuss complications
2. Enumerate Inhalational anesthetic agents and complications of General Anesthesia
3. Preoperative preparation of a diabetic patient

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

4. Regional Anesthesia techniques
5. Ultrasound examination of abdomen
6. Brachial block
7. Halothane
8. Epidural anesthesia
9. Sedative drugs
10. Indications for endoscopy
11. Fresh frozen plasma
12. CT scan
13. Evaluation of a cardiac patient for surgery
14. Bone scan
15. Monitoring during general anesthesia

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Precautions before extubation of a patient
17. Platelet concentrate
18. Atropine
19. Thallium study
20. Lidocaine
21. Echocardiography
22. Propotfol
23. Cardiac defibrillator
24. Arterial blood gas analysis
25. Invasive monitoring
26. Midazolam
27. Management of hypotension

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

Operation Theatre Technology Advanced

Paper – III(RS)

Q.P. CODE: 2928

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 – Indications and surgical steps of surgical management fracture neck femur
2. What is TWRP describe in detail regarding positioning of patients and surgical steps
3. What is general anesthesia. Mention few general anesthetics agents and discuss advantage and disadvantages of general anesthesia.

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

4. Interposition grafting
5. Steps of cadaveric eye procurement
6. Surgical steps of thyroidectomy
7. Describe steps of putting patient on cardiopulmonary pass in open heart surgery
8. Craniotomy
9. What is extramural hematoma - treatment
10. Discuss flaps in grating
11. What is tension pneumothorax – treatment
12. What is pneumenectomy – indications
13. Epidural anesthesia
14. What do you mean by reconstructive surgery mention few examples.
15. What is hemithyroidectomy - mention surgical steps

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Bladder wash - describe
17. What are various positions given for spine surgery
18. What is ICD how do you insert
19. What is Foleys catheter – where is it used
20. What is placenta previa
21. What is hysterectomy – mention two approaches
22. Mention two complication of spinal anesthesia
23. What is sternotomy – what specific instrument is required
24. Which specific instrument (knife) is used in skin grafting
25. What is susdural haematoma
26. Mention two parameters monitor recovery for post operative patient
27. What is craniotomy

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

APPLIED OPERATION THEATRE TECHNOLOGY
Paper - II (Revised Scheme)

Q.P. CODE: 2927

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. Role of Radiological examination in acute surgical cases
2. Discuss the types of anesthesia in major surgery
3. Blood transfusion – its merits & demerits – discuss

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

4. Preoperative patients for GI surgery
5. Role of MRI scan in soft tissue tumours
6. Emergency endotracheal intubation – indications
7. Field block – uses
8. FNAC-its use in surgical practice
9. Maintenance of Asepsis in OT
10. Complication of spinal anesthesia
11. Monitoring of post operative patients
12. Triage
13. Importance of HPE in thyroid surgery
14. Importance of adjuant anesthetic drugs in general anesthesia
15. Mammography

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Adrenaline
17. Nitrous oxide
18. Gluteraldehyde
19. T – tube
20. Storage of blood
21. Inhalation anesthesia
22. Bleeding disorders
23. Infusion disorders
24. PAP smear
25. Biopsy
26. AFB
27. Culture & sensitivity

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

Clinical Anaesthesia Technology
Paper – I (RS Scheme)

Q.P. CODE: 2932

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 mechanism used in vaporeisers. Discuss in detail about iosflurance
2. Enumerate drugs used in CPR in ACLS. Discuss in detail about any two of them
3. Discuss the Goals of premedication. Describe in detail about the role of narcotics

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

4. ECG
5. Metabolic Alkalosis
6. Nitrous oxide
7. Dopamine
8. Criteria for predicting difficult intubation
9. Complications of accidental self extubation in recovery room
10. Treatment of hypertension in recovery room
11. Hypercarbia during anaesthesia
12. Mac Intosh Laryngoscope
13. Sodium bicarbonate
14. Uses of LMA and discuss types of LMA
15. Steroid use in anaesthesia
16. Armoured tubes
17. Blood

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

18. Classify local anaesthetics with examples
19. Uses of succinylcholine
20. Treatment of hyperkelemia
21. Uses of MacGill forceps
22. Enumerate parts of cylinder
23. Treatment of Tachycardia in anaesthesia
24. Name the parts of endotracheal tube cuffed
25. Sellick's manuvere
26. Uses of midazolam
27. Causes of respiratory acidosis
28. Name some antacids
29. Pin index of oxygen, nitrous oxide. Colour coding of oxygen, nitrous oxide cylinders

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Rajiv Gandhi University of Health Sciences, Karnataka

Third year B.Sc. Anesthesia Technology Examination – Feb/March 2011

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

APPLIED ANAESTHESIA TECHNOLOGY

Paper – II (Rs)

Q.P. CODE: 2933

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 Neuro muscular junction. Classify neuromuscular blockers
2. Mention the monitoring during interoperative period. Explain any one of them in detail
3. Mention the complications of spinal anesthesia. Explain the management of hypotension during spinal anesthesia

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

4. Difficult of Intubation drill
5. Stages of Anaesthesia
6. Causes of introperative hypoxia
7. Electrical injuries
8. Normal ECG waveform
9. Atracurium
10. Uses of nerve stimulator
11. Increased airway pressure during ventilation
12. Bain's circuit
13. Ankle block
14. Classify the analgesics and give examples
15. Use of pluse oximetery in post operative period

SHORT ANSWERS (Answer any Ten) **3 x 10 = 30 Marks**

16. Oxygen cylinder
17. Ischemia and infarction
18. Uses of lignocaine jelly
19. LMA
20. Activated clotting time
21. Tachycardia
22. Airway trauma
23. Precautions during patient transportation
24. Pulmonary artery catheter
25. Ambu bag
26. Oxygen hood
27. Nitroglycerine

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Rajiv Gandhi University of Health Sciences, Karnataka

Third year B.Sc. Anesthesia Technology Degree Examination – Feb/March 2011

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

ADVANCED ANAESTHESIA TECHNOLOGY
(Revised Scheme)

Q.P. CODE: 2934

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 pre operative and intra operative management of a patient with COPD for laprotomy
2. Discuss anesthesia for a pregnant lady for LSCS severe pre eclampsia
3. Discuss management of a 4 year old child with foreign body in the larynx

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

4. Diabetic keto acidosis
5. Management of hypothermia. Ten golden rules of anaesthesia
6. Post anaesthesia recovery unit (PACU)
7. Classify antihypertensive drugs. Explain in detail about ACE inhibitors. Machine check list
8. Anesthetic management of a patient with chronic renal failure
9. Labour analgesia
10. Acute severe asthma
11. Risk factors of patient with ischemic heart disease
12. Pulse oximetry
13. Liver function tests
14. Hypothyroidism
15. Indications for blood transfusion

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Apgar scoring
17. Insulin
18. Pulmonary function test
19. Pressure control ventilation
20. Haemorrhagic shock
21. Massive blood transfusion
22. Beta Blockers
23. Protamine
24. Double lumen tubes
25. PEEP
26. CSF
27. Hypokalemia

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

Clinical Anaesthesia Technology

Paper – I (RS Scheme)

Q.P. CODE: 2932

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 anaesthesia for hernia surgery in a patient with ischemic heart disease. What monitoring will you do for such a patient
2. Discuss the place of anti-arrhythmic agents in Anaesthesia
3. Discuss your role in management of difficult airway

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

4. Platelets
5. Respiratory acidosis
6. Isoflurane
7. Epinephrine
8. Hydrocortisone
9. Prone position
10. Crystalloids
11. Cardiac massage
12. CVP monitoring
13. Parts of laryngoscope
14. Thiopentone
15. Hyperkalemia
16. Thyroid function tests
17. Arterial pressure monitoring

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

18. Hypothermia during anaesthesia
19. Nitrous oxide
20. Diuretics
21. Atropine
22. Syringe pump
23. Packed RBC
24. Post operative hypertension
25. Ventricular tachycardia
26. Norepinephrine
27. Confirmation of endotracheal intubation
28. Vaporizer
29. Circle absorber

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Examination – Aug / Sep 2011

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

APPLIED ANAESTHESIA TECHNOLOGY
PAPER – II (RS)
Q.P. CODE: 2933

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 are thermal and electrical injuries. Describe each
2. Compare and contrast prancuronium and atracurium
3. Spinal anaesthesia

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

4. Oropharyngeal airways
5. $ETCO_2$
6. Propofol
7. Difficult intubation
8. Complications in recovery room
9. Neuro muscular transmission
10. Compare and contrast morphine and pethidine
11. Tramadol
12. Humidifiers
13. Sedation for MRI
14. Sodalime
15. Isoflurane

SHORT ANSWERS (Answer any Ten) **3 x 10 = 30 Marks**

16. Pre use check of anesthetic equipment
17. Calcium
18. Respiratory acidosis
19. First ether demonstration
20. CPR
21. Heparin
22. OT temperature
23. Oxygen flow metre
24. Lignocaine
25. Adrenaline
26. Causes and management of increased airway pressure in the ot
27. Bradycarida

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Anesthesia Technology Degree Examination – Aug / Sep 2011

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

ADVANCED ANAESTHESIA TECHNOLOGY
(Revised Scheme)

Q.P. CODE: 2934

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 types of Diabetes Mellitus. Describe pathophysiology and management of type II Diabetes
2. Describe foetal circulation with diagram
3. Describe pathophysiology and management of hypovolemic shock

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

4. Describe physiological changes of respiratory system during pregnancy
5. Liver function test
6. Pulmonary function test – Bed side
7. Classify types of Anemia in detail
8. Glassgow coma scale
9. Status epilepticus
10. Classification of diuretics & explain any one loop diuretic
11. Differential diagnosis of acute chest pain and what are the investigations for acute MI
12. Complications and end organ effects of hypertension
13. Management of patient with hypothyroidism
14. Modes of ventilators and explain about PEEP in detail
15. Double lumen endotracheal tubes – indication, uses, explain in detail

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Definition of Obesity
17. Mallanpatti scoring
18. Classify oral hypoglycemic drug
19. Supine hypotension syndrome in pregnancy
20. APGAR score
21. Maintenance of body temperature
22. Transport to ICU
23. Sites of CVP catheter insertion
24. Atropine
25. Glucose tolerance test
26. Atropine
27. Betablockers

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