Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Anaesthesia Technology Degree Examination – Feb 2010

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 about anaesthesia machine.
2. Define types of gas laws-its practical application in respiratory physiology.
3. Describe the methods of cleaning & sterilization of anaesthesia equipment.

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

4. Regional anaesthetic.
5. Compressed gas cylinders.
6. Epidural set.
7. Joseph Priestley.
8. Inhalational induction.
9. Suction apparatus.
10. Protocol for tracheostomy decannulation.
11. Intubation drill.
12. Goals of oxygen therapy.
13. Trans-cuteneous oxygen monitors.
14. Bain circuit
15. Pin index system
16. Oxygen flush
17. John snow

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

18. Facemasks.
19. Hartman's solution.
20. Post dural puncture headache.
21. Magill's forceps.
22. Reducing valves.
23. Glutaraldehyde.
24. End tidle carbon dioxide, estimation.
25. Nerve stimulators.
26. Boyles law.
27. Liquid oxygen.
28. Simpson.
29. Nasal airways.

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Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Anaesthesia Technology Degree Examination – Feb 2010

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. Classify types of diabetes mellitus; describe pathophysiology & management of type II diabetes mellitus.
2. Describe foetal circulation with diagram.
3. Describe pathophysiology & management of hypovolemic shock.

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

4. Describe physiological changes of respiratory system during pregnancy.
5. Liver function test.
6. Bedside pulmonary function test.
7. Classify types of anemia.
8. Glasgow coma scale.
9. Status epilepticus.
10. Classification of diuretics and explain any one loop diuretic.
11. Differential diagnosis of acute chest pain and what are the investigations of Acute-MI.
12. Management of bronchial asthma.
13. Complications and end organ effects of hypertension.

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

14. Definition of obesity.
15. Mallampati scoring.
16. Classify oral hypoglycemic drugs.
17. Supine hypotension syndrome in pregnancy.
18. APGAR score.
19. Types of epilepsy.
20. Factors affecting placental transfer of drugs.
21. Mechanism of action of aminophylline.
22. Sites to insert CVP catheter.
23. Atropine.
24. Glucose tolerance test.
25. B-blockers.

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Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Sc. Operation Theatre Technology Degree Examination – Feb - 2010

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. Discuss Pathophysiology of ischemic heart diseases and management
2. Enumerate various difficulties faced while operating elderly patients
3. Discuss in detail various causes of anemia and their treatment

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

4. Diabetic Keto acidosis
5. Renal hypertension
6. Treatment of essential hypertension
7. Hypovolumic shock
8. Status epilepticus
9. What are the causes of obstructive lung disease and treatment in short?
10. Tension pneumothorax
11. Angina pectoris
12. Symptom and signs of hemiplegia
13. Mention causes of CVA and investigation in brief

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

14. What is extradural haematoma? Mention causes
15. Spirometry
16. GTT
17. What are the causes of infective hepatitis? Discuss vaccination of Hepatitis B
18. Grandmal epilepsy
19. Emphysema
20. Bile pigments and Bile salts
21. What is placenta previa?
22. Discuss the effect obesity in surgical heart of wound
23. Pickwickian syndrome
24. Discuss vaccination against tetanus during pregnancy
25. What is hypoglycemia? Write symptoms, signs and treatment

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