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M.D. EXAMINATION, 2010

ANAESTHESIOLOGY

Paper - I

(Basic Sciences)

Time : Three Hours]

[Maximum Marks : 100

1. Draw line diagram of brachial plexus and various site for regional anaesthesia. Describe their complication.
2. Describe pulmonary function test and what are findings in obstructive and restrictive lung diseases.
3. What are physiological changes associated with pregnancy and how epidural anaesthesia helps in labour pain ?
4. What is advanced life support and describe what are new changes in C.P.R. after 2005 ?

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5. Short notes on :

- (a) Respiratory acidosis.
- (b) Target controlled anaesthesia.
- (c) N.M.D.A. receptor.
- (d) Glasgow coma scale.

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M. D. Examination, 2010

ANAESTHESIOLOGY

Paper - II

(Anaesthesia in relation of associated systemic Disease)

Time : Three Hours]

Maximum Marks :100

Note:- Answer all questions.

1. Discuss preoperative assessment and management of an elderly patient having acute abdomen and posted for emergency laprotomy.
2. Discuss the anaesthetic management of a case of fracture neck femur with ischaemic heart disease (IHD) for surgical fixation.
3. Write short notes on:
 - (a) Thyroid storm
 - (b) diabetic Ketoacidosis
 - (c) Anion Gap
 - (d) John Snow

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M.D. EXAMINATION, 2010

ANESTHESIOLOGY

Paper - III

Time : Three Hours]

[Maximum Marks : 100

Note :- Each questions is of 20 marks.

1. Discuss the preoperative evaluation and perioperative management of a 28 years old term pregnant patient with severe pre-eclampsia scheduled for elective cesarean section.
2. Discuss anesthetic problems and management in a 65 year old patient posted for TURP with history of MI 6 months back.
3. Describe preanesthetic evaluation and anesthetic management of a patient with bronchial asthma scheduled for laparoscopic cholecystectomy.

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4. 16 year old patient of scoliosis is posted for corrective surgery. Discuss preanesthetic evaluation and monitoring techniques.
5. Outline the anaesthetic management of a 2 years old child who is scheduled for therapeutic bronchoscopy following inhalation of a foreign body 2 days ago. The child does not show any signs of upper airway obstruction.

OR

Discuss the perioperative management of a 4 day old neonate posted for repair of tracheoesophagal fistula.

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M. D. Examination, 2010

ANAESTHESIOLOGY

Paper - IV

(Recent Advances)

Time : Three Hours]

Maximum Marks :100

Note:-- Attempt all questions. Write brief and relevant answers.

1. Write notes on:

- (i) Fasting guide lines for paediatric as well as adult age group. 10
- (ii) Newer modes of ventilation. 10
- (iii) Anaesthesia machine preuse check list. 10
- (iv) Sugammadex. 10

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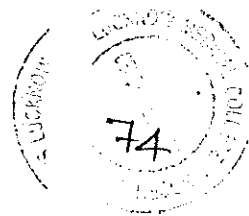
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OR

Discuss the perioperative management of a 4 day old neonate posted for repair of tracheoesophageal fistula.

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M. D. Examination, 2011

ANAESTHESIA

Paper I

**(Physiology, Clinical Biochemistry and
Pathology in Relation to Anaesthesiology)**

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Describe the regulation of cerebral blood flow. How is it monitored? 30
2. Describe the physiological changes that occur in pregnancy. Also discuss the pathological changes in P.I.H. What are the diagnostic criteria of P.I.H.? 30

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3. Write short notes on :

- (a) Pulmonary capillary wedge pressure 10
- (b) Second gas effect 10
- (c) Complications of blood transfusion 10
- (d) Respiratory physiology of a neonate 10

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M. D. Examination, 2011

ANAESTHESIA

Paper II

(Pharmacology, Physics and Applied Anatomy
in Relation to Anaesthesiology)

Time : Three Hours] [Maximum Marks : 100

Note : Attempt all questions.

1. Describe the anatomy of the brachial plexus.
Describe the supraclavicular approach of brachial
plexus block. 30
2. Assessment of neuro muscular block. 30
3. Write short notes on :
(a) Combined spinal epidural block 10

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| (b) Etomidate | 10 |
| (c) Sugamadex | 10 |
| (d) Pulmonary function tests | 10 |

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M. D. Examination, 2011

ANAESTHESIA

Paper III

**(Clinical Sciences in Relation to
Anaesthesiology)**

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Describe the anaesthetic technique for transurethral resection of prostate in a 65 year old patient on pacemaker. 30
2. Discuss the anaesthetic management of a case posted for pneumonectomy. 30

3. Write short notes on :

- (a) ICU management of Guillian-Barre syndrome. 10
- (b) Anaesthetic considerations of strabismus surgery. 10
- (c) Management of venous air embolism. 10
- (d) Criteria for brain death. 10

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4478**M. D. Examination, 2011****ANAESTHESIA****Paper IV****(Principles and Practice of
Anaesthesiology)**

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Describe the anaesthetic management of a patient with severe mitral stenosis for vaginal hysterectomy. 30
2. Anaesthetic implications of laproscopic surgery. 30

3. Write short notes on :

- (a) Anaesthetic considerations in a dialysis dependant patient. 10
- (b) CPR sequence of ventricular fibrillation. 10
- (c) Patient controlled analgesia. 10
- (d) Management of anaphylactic shock. 10

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M. D. Examination, 2012
ANESTHESIOLOGY
Paper - I
(Basic Science as Applied to
Anesthesiology)

Time : Three Hours] [Maximum Marks : 100

Note :- Attempt all questions. Give illustrations wherever required.

1. Describe the normal coronary circulation. Discuss the pre-operative evaluation of a patient with Ischemic Heart Disease (IHD) scheduled to undergo non-cardiac surgery. 20
2. Write short notes on : 10x4=40
 - (a) Venous Air Embolism (VAE).
 - (b) Role of the kidney in acid-base balance.
 - (c) Carbon-monoxide poisoning.
 - (d) Clinical tests for evaluation of the autonomic nervous system.

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3. Describe the following (any four) : 10x4=40
 - (a) Oxygen dissociation curve and factors influencing it.
 - (b) Surfactant.
 - (c) Bispectral Index (BIS).
 - (d) Clinical features, diagnosis and treatment of hyperkalemia.
 - (e) Mismatched blood transfusion.
 - (f) ASA classification.

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3086

M. D. Examination, 2012

ANESTHESIA

Paper - II

(Anesthesia in Relation to Associated Systemic Diseases)

Time : Three Hours] [Maximum Marks : 100

Note :- Attempt all questions. Give illustrations wherever required.

1. Describe the anatomy of the larynx along with its nerve supply. Enumerate the adductors, abductors and tensors of the vocal cords. Illustrate the vocal cord positions in various palsies. 25
2. Write short notes on the following : 10x4=40
 - (a) TIVA and its clinical applications.
 - (b) Stellate ganglion block.

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- (c) Problems of long term IPPV.
- (d) Preparation of patient of phaeochromocytoma for surgery.

3. Describe the following :

- (a) Management of a case of Diabetic Keto-Acidosis. 15
- (b) Low-flow Anesthesia. 10
- (c) Mallampati grading. 10

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M. D. Examination, 2012

ANAESTHESIOLOGY

Paper - III

**(Anesthesia in relation to Subspecialities
such as Cardiac Neurosurgery Obstetrics
and Paediatrics Surgery)**

Time : Three Hours] [Maximum Marks : 100

Note : Attempt all questions.

1. Outline the preoperative assessment and anaesthetic management of a 2 year old child who is scheduled for therapeutic bronchoscopy following inhalation of a foreign body 2 days ago. The child does not exhibit any signs of upper airway obstruction. 25
2. A 30 Year Old female is posted for posterior fossa surgery in sitting position. Enumerate the anesthetic problems. How will you monitor the patient during

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surgery? Briefly discuss the anesthetic management. 25

3. Write short notes on : (Marks 10 each)
 - (a) Scavenging of anesthetic gases
 - (b) TURP syndrome
 - (c) Intraoperative management of a cyanotic spell in a 3-year-old child with tetralogy of Fallot.
 - (d) Epidural test does in obstetrics
 - (e) Principles of optimal perioperative management of a term neonate with gastroschisis.

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M. D. Examination, 2012

ANAESTHESIOLOGY

Paper - IV

(Recent Advances in Anesthesiology)

Time : Three Hours] [Maximum Marks : 100

Note : Write short notes on any ten :

1. Recent trends in transfusion of blood and blood products.
2. Principles and practice of low flow anesthesia.
3. Evaluation of a depth of anesthesia.
4. Anesthetic considerations in LASER surgery of the larynx.
5. Remifentanyl
6. Role of regional analgesia in pediatric surgery.
7. Prophylaxis and treatment of PONV.

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8. Discuss the reasons for and against the use of nitrous oxide in anaesthetic practice.
9. Use of simulators in anaesthetic training.
10. Role of cardiopulmonary exercise testing for preoperative assessment.
11. Transoesophageal Echocardiography.
12. How can ultrasound be useful in anaesthesia and intensive care medicine?
13. Newer modes of ventilation.

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