



RAN-3740

M.D. (Anaesthesiology) Examination

July - 2020

Anaesthesiology : Paper - I (Set - III)

(Basic Sciences Applied to Anaesthesiology)

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

M.D. (Anaesthesiology)

Name of the Subject :

Anaesthesiology : Paper - I (Set - III) (Basic Sciences Applied to Anaesthesiology)

Subject Code No.: 3 7 4 0

Seat No.:

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Student's Signature

- Q.1.** Discuss in detail thermoregulation under anaesthesia. Discuss the benefits, complications and prevention of mild intra operative hypothermia. (30)
- Q.2.** Describe transport of oxygen in blood. Discuss about various types of hypoxia and its effect on body. (30)
- Q.3. Write notes on: (any four) (40)**
- Anaesthetic considerations for laser surgery of the airway.
 - Drug interactions with neuromuscular blockers.
 - Vasopressin.
 - Myocardial preservation.
 - Peri operative documentation and concerns.



RAN-3741

M.D. (Anaesthesiology) Examination

July - 2020

Anaesthesiology : Paper - II (Set - I)

(Clinical Sciences Applied to Anaesthesiology)

Time: 3 Hours]

[Total Marks: 100

सूचना : / Instructions

नीचे दृशविल निशानीवाणी विगतो उत्तरवली पर अवश्य लपवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

M.D. (Anaesthesiology)

Name of the Subject :

Anaesthesiology : Paper - II (Set - I) (Clinical Sciences Applied to Anaesthesiology)

Subject Code No.: **3 7 4 1**

Seat No.:

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Student's Signature

1. A 70 year old male presenting to casualty with a blood pressure of 80/50 mmHg, heart rate of 140/min, respiratory rate of 40/min, abdominal distension, constipation and vomiting of 3 days duration, diagnosed as strangulated inguinal hernia. Discuss the preoperative preparation, anaesthetic management and postoperative care of the patient. **(30)**
2. Discuss the preoperative assessment, preparation and management of a 2 year old child with patent ductusarteriosus for ligation. **(30)**
3. **Write short notes on: (ANY FOUR) (40)**
 - (a) Various anaesthetic techniques for microlaryngeal surgery
 - (b) Occulo-cardiac reflex
 - (c) Intravenous regional anaesthesia
 - (d) Methods of reducing intracranial tension
 - (e) Methods of assessment of blood loss.



RAN-3742

M.D. (Anaesthesiology) Examination

July - 2020

Anaesthesiology : Paper III (Set - II)

(Applied Anaesthesia and Resucitaion)

Time: 3 Hours]

[Total Marks: 100

सूचना : / Instructions

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

M.D. (Anaesthesiology)

Name of the Subject :

Anaesthesiology : Paper III (Set - II) (Applied Anaesthesia and resucitaion)

Subject Code No.: **3 7 4 2**

Seat No.:

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Student's Signature

- Q.1.** Discuss the regional analgesia in pediatric patients. What is present status of regional analgesia in neonatal peri-operative period? **(30)**
- Q.2.** Write preoperative evaluation and perioperative anaesthesia management of a 40 year old female having diabetes mellitus controlled on oral hypoglycaemic posted for thyroid surgery. **(30)**
- Q.3. Write short notes on: (any four) (40)**
- 1) Post Tonsillectomy bleeding and its anaesthesia management.
 - 2) Pacemaker and Anaesthesiologist.
 - 3) Monitored Anaesthesia care of a 65 year old patient for cataract surgery.
 - 4) CPAP
 - 5) The anaesthesia management in MRI room.



RAN-3743

M.D. (Anaesthesiology) Examination

July - 2020

Anaesthesiology : Paper - IV (Set - III)

Time: 3 Hours]

[Total Marks: 100

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Name of the Examination:

M.D. (Anaesthesiology)

Name of the Subject :

Anaesthesiology : Paper - IV (Set - III)

Subject Code No.: **3 7 4 3**

Seat No.:

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Student's Signature

- Q.1.** Discuss the anesthetic management of 20 days old child for the repair of menigomyelocole. (30)
- Q.2.** Discuss the anesthetic management of 50 year old obese female posted for laproscopic incisional hernia repair surgery having diabetes mellitus and hypertension. (30)
- Q.3.** Write short notes on: (any four) (40)
- Nerve locator.
 - Dexmedetomidine.
 - Monitoring of anesthesia depth.
 - Pressure support ventilation.
 - USG guided interscalane block.



RAN-2006160101010001

RAN-2006160101010001

D.A. (Diploma in Anaesthesiology) Examination

July - 2020

Anesthesiology : Paper - I

(Basic Sciences Applied to Anaesthesiology)

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

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Name of the Examination:

D.A. (Diploma in Anaesthesiology)

Name of the Subject :

Anesthesiology : Paper - I (Basic Sciences Applied to Anaesthesiology)

Subject Code No.: 2006160101010001

Seat No.:

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Student's Signature

- Q 1.** Name the adrenergic agonists and antagonists. Describe their use in detail in anaesthesia practice. **(25)**
- Q.2.** Describe physiological changes of CO₂ insufflation during laproscopic surgery. What measures will you take to avoid perioperative complications? **(25)**
- Q.3.** Write short notes :(any five) **(50)**
- Bedside pulmonary function tests
 - Documentation in anaesthesia
 - Proseal laryngeal mask airway
 - Noradrenaline
 - Monitored anaesthesia care
 - Stellate ganglion block



RAN - 2006160101020001

RAN-2006160101020001

D. A. (Diploma in Anaesthesia) Examination

July - 2020

Anaesthesia : Paper II

(Anaesthesiology and Resuscitation)

Time: 3 Hours]

[Total Marks: 100

सूचना : / Instructions

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नीचे दृशविव निशानीवाणी विगतो उत्तरवली पर अवश्य लभवी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

D. A. (Diploma in Anaesthesia)

Name of the Subject :

Anaesthesia : Paper II (Anaesthesiology and Resuscitation)

Subject Code No.: **2006160101020001**

Seat No.:

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Student's Signature

1. What are the indications of general anaesthesia during caesarean section? Describe your plan of management of failed intubation after induction of G.A. in a parturient. Add a note on rapid sequence spinal anaesthesia. (25)
2. Describe physiological changes in geriatric patients. Describe anaesthetic management of an 80 yr old patient with myocardial infarction one month prior posted for femur nailing. (25)
3. **Short notes. (any five)** (50)
 - (1) Caudal epidural anaesthesia
 - (2) Stridor after thyroid surgery
 - (3) Humidifiers
 - (4) PDPH
 - (5) Criteria for discharge after the day care surgery
 - (6) Pain assessment



RAN - 2006160101030001

RAN-2006160101030001

D. A. (Diploma in Anaesthesia) Examination

July - 2020

Anaesthesia : Paper III

(Anaesthesiology)

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

D. A. (Diploma in Anaesthesia)

Name of the Subject :

Anaesthesia : Paper III (Anaesthesiology)

Subject Code No.: **2006160101030001**

Seat No.:

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Student's Signature

- Q.1.** Discuss the anatomy of nerve supply of uterus.. Enumerate various methods of labour analgesia. Describe epidural method of labour analgesia. **(25)**
- Q.2.** Describe the physiological changes of pregnancy. **(25)**
- Q.3.** Write notes on: (any five) **(50)**
- Anion Gap.
 - Temperature monitoring.
 - Venturi Principle.
 - TAP Block.
 - Clonidine and Anesthesia.
 - Etco₂.