



RAN - 2106120601010001

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M. D. (Anaesthesiology) Examination June - 2023

Anaesthesiology : Paper - I

Basic Science Applied to Anaesthesiology and Analgesia

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવટ્ટી 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 - Basic Science Applied to Anaesthesiology and Analgesia

Subject Code No.: **2106120601010001**

Seat No.:

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Student's Signature

- Q. 1.** Describe anatomy of Epidural space with the help of diagram. Describe in detail the indications, contraindications, techniques and various additives used for continuous epidural anaesthesia. (20)
- Q. 2.** Describe physiology of neuromuscular transmission, assessment of neuromuscular blockade and phase II block in detail. (20)
- Q. 3.** Discuss various liver function tests. Enumerate the aetiology of jaundice and discuss differential diagnosis of a patient with jaundice based on liver function test. How will you handle anaesthesia equipment after anaesthetizing Hepatitis B positive patient? (20)
- Q. 4. Write short notes on any four. (10 × 4)**
- A. World anaesthesia day.
- B. Role of simulators in anaesthesia training.
- C. Stellate ganglion block.
- D. Clinical tests to evaluate Autonomic Nervous System.
- E. Venturi principle.

RAN-2106120601010001]

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[60] P1571



RAN-2106120601020001

M. D. (Anaesthesiology) Examination June - 2023

Anaesthesiology : Paper - II

Clinical Science Applied to Anaesthesiology and Analgesia

Time: 3 Hours]

[Total Marks: 100

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- (1) નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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Name of the Examination:

M. D. (Anaesthesiology)

Name of the Subject :

Anaesthesiology : Paper - II - Clinical Science Applied to
Anaesthesiology and Analgesia

Subject Code No.: 2106120601020001

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Student's Signature

- Q. 1. Discuss anaesthetic management of a 23 year old patient with Abruption placenta posted for emergency exploratory laparotomy. (20)
- Q. 2. Discuss in detail the anaesthetic management of posterior fossa surgery. What are the various causes and management of venous air embolism? (20)
- Q. 3. A 60 years old diabetic woman with rheumatoid arthritis posted for total hip replacement. Discuss problems related to anaesthesia and perioperative management. (20)
- Q. 4. Write short notes on any Four: (10 × 4)
- Hypoxic pulmonary vasoconstriction.
 - Thromboelastography.
 - Post operative nausea and vomiting.
 - Intra operative bronchospasm.
 - Hypocalcaemia.

RAN-2106120601020001]

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[60] P1572



RAN-2106120601030001

RAN-2106120601030001

M. D. (Anaesthesiology) Examination June - 2023

Anaesthesiology : Paper - III

Theory and Practice of Anaesthesiology and Resuscitation

Time: 3 Hours]

[Total Marks: 100

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Name of the Examination:

M. D. (Anaesthesiology)

Name of the Subject :

Anaesthesiology : Paper - III - Theory and Practice of Anaesthesiology and Resuscitation

Subject Code No.: **2106120601030001**

Seat No.:

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- Q. 1.** Enumerate the evidence based indications of pacemaker insertion. Briefly list the various types of pace makers. Discuss anaesthetic management of a patient on pace-maker posted for lap-cholecystectomy. **(5 + 5 + 10)**
- Q. 2.** Discuss preoperative evaluation, preparation and anaesthesia management of a 2 day old female child with congenital diaphragmatic hernia posted for primary repair. **(5 + 5 + 10)**
- Q. 3.** How will you investigate and prepare a patient for anaesthesia who is known case of sickle cell anaemia? **(10 + 10)**
- Q. 4.** Write short notes on any Four: **(10 × 4)**
- POCUS.
 - Pain assessment scales in paediatric patient.
 - Sign and symptoms of various nerve palsy post thyroidectomy.
 - BIPAP ventilation.
 - Recent CPR Guidelines.

RAN-2106120601030001]

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[60] P1573



RAN - 2106120601040001

RAN-2106120601040001

M. D. (Anaesthesiology) Examination June - 2023

Anaesthesiology : Paper - IV

Theory and Practice of Anaesthesiology and Recent Advances

Time: 3 Hours]

[Total Marks: 100

सूचना : / Instructions

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Name of the Examination:

M. D. (Anaesthesiology)

Name of the Subject :

Anaesthesiology : Paper - IV - Theory and Practice of Anaesthesiology and Recent Advances

Subject Code No.: **2106120601040001**

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Student's Signature

- Q. 1.** What is quality assurance in anaesthesia? What are the methods used for monitoring and evaluation of quality of anaesthetic procedure? **(10 + 10)**
- Q. 2.** What is monitored anaesthesia care? What are the anaesthetic considerations a paediatric patient posted for MRI? **(5 + 15)**
- Q. 3.** What is ECMO? Describe role of the ECMO in ARDS? **(5 + 15)**
- Q. 4.** Write short notes on any Four. **(10 × 4)**
- A. Role of anaesthesiologists in enhanced recovery after surgery (ERAS).
- B. HFNO.
- C. Advanced haemodynamic monitoring.
- D. Magnesium and its role in anaesthesia.
- E. Cryoprecipitate.

RAN-2106120601040001]

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[60] P1574