



N-2106120601010001

M. D. Examination

June/July - 2021

Anaesthesiology : Paper - I
(Basic Science Applied to Anaesthesiology)

Time : 3 Hours]

[Total Marks : 100

Instruction :

नीचे दृष्टवित - निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book. Name of the Examination :	Seat No. :
M. D.	<input type="text"/>
Name of the Subject :	<input type="text"/>
Anaesthesiology - I (Basic Science Applied to Anaesthesio.)	<input type="text"/>
Subject Code No. :	Section No. (1, 2,.....): Nil
2 1 0 6 1 2 0 6 0 1 0 1 0 0 0 1	<input type="text"/>
	Student's Signature

- 1 Write mechanism of action of local anesthetic 5+15+5+5=30
agents. Discuss factors affecting their pharmacokinetics and
pharmacodynamics. What is LAST. What are factors
responsible for LAST and how will you manage LAST.
- 2 Discuss various liver function tests. 10+5+10+5=30
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.
- 3 Write notes on : (Write any four) 40
(1) Bridge therapy
(2) Tec 6 vaporizer.
(3) Chlorprocaine vs Bupivacaine
(4) Acute normovolemic hemodilution.
(5) What is pulsless electrical activity, its causes and
management.



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M. D. Examination

June/July - 2021

Anaesthesiology : Paper - II

(Clinical Science Applied to Anaesthesiology)

Time : 3 Hours]

[Total Marks : 100

Instruction :

नीचे दशांशके निशानवाणी विगतो उत्तरवही पर अवश्य लपकी. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination :	<input type="text"/>
M. D.	<input type="text"/>
Name of the Subject :	<input type="text"/>
Anaesthesiology - II (Clinical Science Applied to Anaesthesiology)	<input type="text"/>
Subject Code No.:	Section No. (1, 2,.....) : Nil
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	Student's Signature

- 1 Describe the recent advances in anesthetic management of a 2 days old neonate posted for repair of tracheo-oesophageal fistula. Classification, Diagnosis, Preoperative assessment, Monitoring, Initial optimization and anaesthetic management. $5+5+5+5+5+15=40$
- 2 A 70 yrs, male with K/C/O chronic kidney disease since 5 years is posted for left femur surgery. Discuss stages of CKD (5), pathophysiological changes (15) and in anaesthetic management. $10+15+15=40$
- 3 Write notes on : 40
 - (1) Write principle of pulse oximetry in brief with its limitations.
 - (2) Clinical applications of perfusion index (PI).
 - (3) Venous air embolism.
 - (4) Hypocalcemia.
 - (5) 3 in 1 block



N-2106120601030001

M. D. Examination

June/July - 2021

Anaesthesiology : Paper - III
(Theory & Practice of Anaesthesiology & Resucitation)

Time : 3 Hours]

[Total Marks : 100

Instruction :

नीचे दशाविवेक निशानिवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. D.

Name of the Subject :
Anaesthesio. - III (Theory & Practice of Anaesthesio. & Resucita.)

Subject Code No. : 2 1 0 6 1 2 0 6 0 1 0 3 0 0 0 1

Section No. (1, 2,.....) : Nil

Seat No.:

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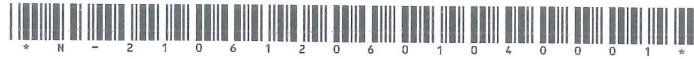
Student's Signature

- 1 A 30 year old full term second gravida is posted for emergency LSCS for eclampsia. She has received magnesium sulfate just before two hours. On examination her blood pressure is 180/120 Mm of Hg, pulse 100/min and SpO₂ 99% on room air and PT is 1.3, platlat count 80000/cmm and her Covid 19 rapid antigen test is positive. Discuss anesthetic management in detail. What are likely intraoperative and postoperative complications. How will you handle the Covid 19 positive status in perioperative period. **10+10+10=30**
- 2 Discuss basic physiology of cardiac pacing, various pacemaker modes and pacemaker magnet. List the various indication of pacemaker insertion. Describe the anesthetic consideration of a patient with pacemaker posted for laparoscopic cholecystectomy. **5+5+5+15=30**

3 Write notes on : (any five) (8 marks each)

40

- (1) Contraindication and complication of Bipap ventilation.
 - (2) TEE
 - (3) Management of Status Asthmaticus
 - (4) Sleep apnoea syndrome
 - (5) Thyroid storm
 - (6) Dexmedetomidine.
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M. D. Examination

June/July - 2021

Anaesthesiology : Paper - IV
(Theory & Practice of Anaesthesiology & Recent Advances)

Time : 3 Hours]

[Total Marks : 100

Instruction :

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination :	<input type="text"/>
M. D.	<input type="text"/>
Name of the Subject :	<input type="text"/>
Anaesthesio. - IV (Theory & Practice of Anaesthesio. & Recent Adv.)	<input type="text"/>
Subject Code No. :	Section No. (1, 2,.....): Nil
2 1 0 6 1 2 0 6 0 1 0 4 0 0 0 1	<input type="text"/>
	Student's Signature

- 1 Discuss in detail the etiopathogenesis, 5+5+5+10+5=30
clinical features, investigations, management of ARDS.
Discuss various lung protective ventilation strategies. What
are the special precautions to be taken in ventilation of a
critically ill COVID-19 patients.
- 2 Write anaesthetic management in brief : 10+10=20
(1) Role of anaesthesiologist in organ retrieval from brain
dead patient.
(2) Anaesthetic Management of 3 year child for MRI
brain.
- 3 Write notes on : (any five) 50
(1) What should we know about evidence based medicine ?
(2) Discuss component of primary survey in trauma patient.
(3) Videolaryngoscope – technique, advantages and complications.
(4) ERAS
(5) Lung ultrasound : various views and interpretation.
(6) New ASA grading.