



M.D. (Anaesthesiology) Examination September - 2025

Paper - I

Time	e: 3 I	Hours]	· [Total Marks: 100	
સૂચન	ı:/I	nstructions		
(1)	Fill u Nam	દર્શાવેલ િનશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. up strictly the details of signs on your answer book e of the Examination: M.D. (Anaesthesiology) e of the Subject : Paper - I ect Code No.: 2406120101010501	Seat No.: Student's Signature	
Q-1.		Write notes on: -	(3+4+3=10)	
	A.	ANNOVA		
	B.	Cohort study in research.		
	C.	Student "t "test.		
Q-2.		Discuss:-	(3+4+3=10)	
	A.	Ropivacaine.		
	B.	Rocuronium		
	C.	Midazolam		
Q-3.		Discuss how a child can't be a small adult.	(10)	
Q-4.		Discuss:-	(5+5=10)	
	A.	Proportionating devices in anaesthesia machine fo	or maintenance	
		of required oxygen in gas mixture.		
	B.	Buska supra glottic airway.		
Q-5.		Describe:-	(5+5=10)	
	A.	Compliance of respiratory system.		
	B.	Work of breathing.	o 27 En 3 Son de la con-	
			. =	

Q-6. Discuss:-

(5+5=10)

- A. Non invasive methods of cardiac output monitoring
- B. Pulmonary artery catheter and data interpretation.

Q-7. Discuss:-

(6+4=10)

- A. PSA oxygen plant.
- B. Rotameter

Q-8. Short notes on: -

(5+5=10)

- A. Anaesthesia ventilators.
- B. Venous air Embolism.

Q-9. Short note on:-

(6+4=10)

- A. Enumerate various markers of kidney function. How e-GFR is calculated;
- B. Oculo-cardiac reflex.

Q-10. Short note on: -

(5+5=10)

- A. Phase II block and its management
- B. Capnography





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Paper - II (Practice Of Anaesthesia)

Time	: 3 Hours]	[Total Marks: 100
સૂચના	: / Instructions	
(1)	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: Paper - II (Practice Of Anaesthesia) Subject Code No.: 24061201010502	Seat No.: Student's Signature
Q-1.	Describe liver function tests with interpretation to disorder. How risk assessment done in patients with Discuss anaesthetic management of patient with old posted for Whipple's procedure.	h major hepatic disorder.
Q-2.	Classify various hypoglycaemic agents recently be anaesthetic considerations. Describe preoperative estratification, optimisation and anaesthetic manage patient who is diabetic since last 20 years, posted farthroplasty.	evaluation, risk ment of 55-year-old
Q-3.	What are post operative pulmonary complications general anaesthesia. Discuss preoperative optimisa management in patient posted for lobectomy.	
Q-4.	Short notes on: - A. Hyponatremia in ICU B. Dynamic indices of fluid resuscitation	(5+5=10)
Q-5.	Discuss anaesthetic management for awake cranioto	omy for seizure surgery. (10)

Q-6. Discuss briefly: -

(5+5=10)

- A. Prophylaxis and management of DVT
- B. Risk assessment in emergency/ urgent surgeries

Q-7. Write notes on: -

(5+5=10)

- A. Anaesthetic implications in gastroenterological interventions outside operation room.
- B. POCUS for anaesthesiologists.
- Q-8. Define "end of Life" care. What are the various components. What are the criteria of Euthanasia and DNI/ DNAR guidelines. (2+5+3=10)

Q-9. Write notes on:-

(5+5=10)

- A. clinical and confirmatory tests of brain death
- B. myocardial protection during CPB.

Q-10. Write briefly on: -

(2+3+5=10)

- A. Burnout among anaesthesiologists.
- B. Remifentanil in current clinical practice.
- C. Role of Non-invasive ventilation in current clinical practice





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Paper - III

Time:	3 H	ours]	[Total Marks: 100
સૂચના ઃ	/ In	structions	
(1) (1) F	ીચે દશ ill up	વિલ ☞ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. strictly the details of ☞ signs on your answer book	Seat No.:
N	-	of the Examination:	
		.D. (Anaesthesiology) of the Subject :	
		aper - III	
8	Subjec	t Code No.: 2406120101010503	Student's Signature
		Discuss role of an anaesthesiologist in management	of a patient with 60%
Q. 1.			(10)
		acute burns.	
Q. 2.		The preoperative evaluation and anaesthetic manage toxic multinodular goiter with retrosternal extension	ement of a patient with on. (4+6=10)
Q. 3.		Write notes on:-	(5+5=10)
	Α.	Management of unanticipated difficult airway in o	bstetric patients.
	В.	Supraclavicular brachial plexus block.	
Q. 4.		Etiopathogenesis, treatment and anaesthetic manage patient with myasthenia gravis posted for laparoto	ement of a young female my (2+3+5=10)
Q. 5.		The causes, diagnosis and management of common during anaesthetic practice.	a cardiac dysrrhythmias (10)
Q. 6.		Discuss OT preparation, anaesthetic concerns and surgery.	management in OPCAB (2+4+4=10)

Q. 7. Write notes on: -

(3+4+3=10)

- A. Amniotic fluid embolism.
- B. Hepatorenal syndrome
- C. Hepatopulmonary syndrome.

Q. 8. Discuss briefly: -

(5+5=10)

- A. Anaesthetic management in Functional endoscopic sinus surgery (FESS)
- B. Anaesthetic consideration in laser surgery for vocal nodule removal in singer.

Q. 9. Comments on:

(5+5=10)

- A. Post tetanic count and its clinical applicability
- B. Flow volume loop and its clinical applicability

Q. 10. Comments on: -

(2+3+2+3=10)

- A. Walking epidural
- B. Bailey's maneuver.
- C. SAGO technique of intubation
- D. Retrograde intubation.





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Paper = IV

Time	: 3 F	lo	urs]	[Total Marks: 100
			tructions	Seat No.:
(1)	નીચે દ Fill t	ib s	વેલ ☞ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. strictly the details of ☞ signs on your answer book	
1			of the Examination:	
1	•	M.i	D. (Anaesthesiology)	
1			of the Subject :	
		Pa	per - IV	Student's Signature
	Sub	ject	Code No.: 2406120101010504	Sludent's digristers
Q-1.			Discuss the pharmacokinetics, pharmacodynamics Dexmedetomidine in anaesthesia and intensive care	and uses of e. (4+4+2=10)
Q-2	•		Discuss anatomy, indication, technique and compli- block.	cation of coeliac plexus (2+2+3+3=10)
Q-3	.		Discuss the anaesthetic concerns and management year-old child in cath lab.	of ASD closure in two- (5+5=10)
Q-4	١.		Describe newer modes of ventilation, and their applilungs in ICU.	cation in compromised (5+5=10)
Q-5	5.		Discuss in brief the anaesthetic considerations in-	utero foetal surgery. (10)
Q-6	5.		Discuss briefly: -	(4+3+3=10)
	A	١.	Pathophysiology of pulmonary oedema.	
		3.	Patient controlled analgesia	
	(Adjuvants in spinal anaesthesia.	

Q-7.		Discuss the role of prehabilitation and multidisciplinary optim geriatric surgical patients.	isation of (10)
Q-8.		Discuss anaesthetic management of cytoreductive surgery and Hyperthermic Intraperitoneal Chemotherapy (HIPAC).	(10)
Q-9.	A. B. C. D.	Discuss briefly: - Cerebral blood flow monitoring Cerebral Oxygenation Monitoring Intracranial pressure monitoring. Intracranial Biochemistry.	(2+3+3+2=10)
Q-10,	•	Discuss Intraoperative blood conservation strategies.	(10)