MASTER COPY.

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POSTGRADUATE INSTITUTE OF MEDICINE UNIVERSITY OF COLOMBO

MD (ANAESTHESIOLOGY) PART I A EXAMINATION – AUGUST 2020

ESSAY PAPER

Answer six (06) questions only.

Each question should be answered in a <u>separate book</u>.

Da	ate: 7 th	August 2020 Tim	e: 9.00 a.m. –	12.00 noon
1.	1.1.	Draw and label the Mapelson A breathing sattachment).		s (30 marks)
	1.2.	Outline the functions of each component.		(40 marks)
	1.3.	List the advantages and limitations of this s	ystem.	(30 marks)
2.	Write	short notes on the following.		
	2.1.	Advantages and disadvantages of propofol.		(40 marks)
	2.2.	Clinical disadvantages of nitrous oxide.		(30 marks)
	2.3	Uses and side effects of salbutamol.	1	(30 marks)
3.	A 38-year old primigravida with a POA of 34 weeks presented with right upper abdominal pain and a blood pressure of 180/110mmHg. Urine albumin is +++.			
	3.1.	What is your clinical diagnosis?		(10 marks)
	3.2.	What additional information in the history, the investigations will support your diagno		nation and (45 marks)
	3.3.	She is scheduled to undergo an urgent LSCs of this patient.		optimization (45 marks)
			Contd.	/2-

4,	A 35-year old male patient is brought to A&E following an assault. On ad his GCS is 7/15. His vital parameters are stable. He is diagnosed with an head injury.			
	4.1.	Outline the initial management of this patient.	(40 marks)	
	4.2.	How would you prevent secondary brain injury?	(30 marks)	
	4.3.	How will you prepare this patient for transfer to a neuros	eurgical center? (30 marks)	
5.	_	A 6-year old healthy child is admitted to the casualty ward with testicular torsion. He had his meal one hour ago.		
	5.1.	What are the anaesthetic challenges in the management of	of this patient? (35 marks)	
	5.2.	Outline the intraoperative management of this patient.	(45 marks)	
	5.3.	List the options available for management of postoperation Patient.	ve pain in this (20 marks)	
6.		(30 marks)		
	6.1.			
	6.2.			
	6.3.	List the perioperative complications that may occur with hypertension.	untreated (30 marks)	

Contd...../3-

7. A 20-year old patient is anaesthetized for an emergency appendicectomy. During surgery, you notice unexplained tachycardia with increasing end-tidal carbon dioxide, despite adequate ventilation. You suspect malignant hyperthermia (MH).

7.1. What are the potential triggers for MH? (20 marks)

7.2. Outline the initial management of this patient. (45 marks)

7.3. What are the complications of MH? (35 marks)

8.

8.1. List five (5) surgical procedures performed in the prone position. (20 marks)

8.2. Outline the problems encountered in the prone position. (40 marks)

8.3. What precautions would you take to minimize problems in the prone position? (40 marks)