Anesthesia Final MCQs

Notes added by AYA ALAJARMAH



Anesthesia final exam - Nabed 2023

1)Whole blood doesn't contain:

- ✓ a.Blood 350 ml
- b.anticoagulant 50 ml Anticoagulant : Blood Rectio
- c.hematocrit 35-45 %
 - d.HB 8g/do
- ✓ e.(RBC , platelet, WBC) 45%

Whole Blood

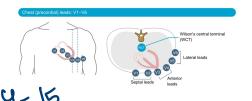


- Plasma contain ABO antibodies
 Increment of 1 gm/dl Hb
- No viable PLT, labile coagulation factors after 8 hrs storage

Blood Trans

2)In ECG the leads v1 v2 represent:

- a. Septal 🗸
- b. anterior wall
- c. lateral wall
- d. inferior wall





3) Venturi adaptor, 02 flow rate?

a.4-6

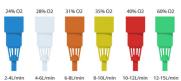
b.6-10

c.10-15

d.Variable ??

Flow rate: Varies with colour give a fixed Fio2 (usually 24%, 28%, 31%, 35%, 40%, and 60%

Venturi Mask Valves 28% 02 31% 02 35% 02 40% 02





4) Which of the following isn't represented in the ECG:

A. atrial depolarization

b. ventricular repolarization 🗲 segment

c. atrial repolarization

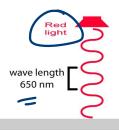
d. hyperkalemia 🗸

5) The wavelength of the infrared led in pulse oximetry:

a. 905

B. 950 🗸 🥢







6) cryoprecipitate contain the following factors expect:

IX





7) what is the fluid used with administration of blood products? Select one?

/a. N/S 🗸

b. R/L

c. D5W

d. HES

e. A and B

V Fluid

🗸 1. Bearded 🖊

2. Hyomental distance 2 finger

3. Large neck

✓4. Advanced age ✓

√5. Snorer ✓



Presence of beard

Body mass index > 26 kg/m2

Lack of teeth

Age>55 years History of snoring

9)55 year old man with end stage renal failure with hernia repair:

ASA:1

ASA:2

ASA: 3

ASA:4

ASA:5

Classification		
ASA I	A normal healthy patient	Healthy, non-smoking, no or minimal alcohol use
ASA II	A patient with mild systemic disease	Mild diseases only without substantive functional limitations. Current smoker, social alcohol drinker, pregnancy, obesity (30 <bmi<40), disease<="" dm="" htn,="" lung="" mild="" td="" well-controlled=""></bmi<40),>
ASA III	A patient with severe systemic disease	Substantive functional limitations; One or more moderate to severe diseases. Poorly controlled DM or HTN. COPD, morbid obesity (BMI 240), active hepatitis, alcohol dependence or abuse, implanted pacemaker, moderate reduction of ejection fraction, ESRD undergoing regularly scheduled dialysis, history (~3 months) of MI, ICVA, TI.A, or CAD/stents.
ASA IV	A patient with severe systemic disease that is a constant threat to life	Recent (<3 months) MI, CVA, TIA or CAD/stents, ongoing cardiac ischemia or severe valve dysfunction, severe reduction of ejection fraction, shock, sepsis, DIC, ARD or ESRD not undergoing regularly scheduled dialysis
ASA V	A moribund patient who is not expected to survive without the operation	Ruptured abdominal/thoracic aneurysm, massive trauma, intracranial bleed with mass effect, ischemic bowel in the face of significant cardiac pathology or multiple organ/system dysfunction
ACA M	A declared brain dead	

10) Larynx?

C3-C6

11) Female come for CS give hyperbaric then suffer from numbness in thumb what the next management?

Head up

Head down

02

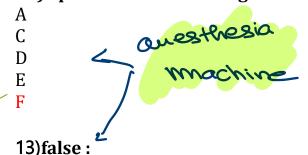
Head up with 02

Head down with 02





12) Spontaneous breathing for infant (mapleson)



	FG1 APLV	Coolfolikel sportencous	Pediatric	Modification
(Magill) Neplesans A	FGI DOOR RB APLY MONT FACE.	best for sport. poorest for cent.	Adult	t-enclosed Algill sylctem ocoaxial(Cacks evenit) provides scavengening
Mapleson's B	=FG≔APUV∑ close to Face, roos k	* 1084 : A]	> efficient	+
Hepkson's C	* Similar to B	but shorten	branthing tub	
Mapleson's D	offosik of A	best for controlled	Adult	mostified into Bain circuit
Mapleson's E (Ayre's T-Piece)	FGI→ Face 1985K No. APLV	for spontaneous	Pediatric	* Jackson- hee's Modification
Majkson's F Tackson's T Ree's Hadification	same as f +there is AB	allows controlled and scallinging	Pediatric	y Maplesmis E, result in Maplesme E

13)Iaise :

02 is green in international

14) Inaccuracy in flow meters are due to: (false)

- ✓- The tube not being vertical.
- ✓- Back-pressure, from for example, a ventilator.
- ✓- Static electricity causing the float to stick to the tube.
- ✓- Dirt causing the float to stick to the tube
- fresh gas rate

- ► Inaccuracy in flow meters are due to: very important
- The tube not being vertical.
- Back-pressure, from for example, a ventilator.
- Static electricity causing the float to stick to the tube.
- Dirt causing the float to stick to the tube

15) ALL true about opioid with regional anesthesia except?

-promote sensory block spring and faster recovery motor

Opioids

They exert direct analgesic effect.

rolong the duration of sensory and motor blockade, and increase

allow for a reduction in the required dose of local anesthetic

Promote motor block sparing and faster recovery while still producing

16) True about Anesthesia stages?

Pupils dilation in stage 2



States of one-the-iol based on Guedet's classification tage I (Ammèsia and analesis) stage of monogaming of the assettient on the used concisioness during this stage, the patient progresses from analysis without amnesia to analgesis with ammesia Patients can carry on a conversation at his time. It age 2 (stage of existence or delirium): from these of consciousness is a size of time this stame. Liberature or delirium is the patient progress of consciousness in a size of time this stame. Liberature or delirium is the patient progress of consciousness in a size of time this stame. Liberature is resolution and heart at me was become irresular in time this stame. Liberature is resolution and heart at me was become irresular in the patients of the stage of t

breating, and pupiliarly dilation.

- Because the combination of spastic movements, vomiting, and irregular respiration may compromise the patient's airway apidly acting drugs are used minimize time in this stage and reach Stage 3 as fast as possible.

Stage 3 (Surgical Anesthesia): from onset of automatic respiration to respiratory paralysis. This is the targeted anesthetic level for procedures requiring general anesthesia.

ed eye movement and respiratory depression are h

Reaction to skin incision disappear.

<u>Stage 4 (medullary depression)</u>-also known as overdose, occurs when too muc anesthetic medication is given relative to the amount of surgical stimulation an

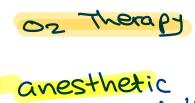
17) One is false about Morphin?

- -Morphin more potent than Morphin 3 glucuronide???
- adults more sensitive than neonate
- -remifentanil safe in renal failure
- -morphine is contraindicated in renal failure

Neonates are more sensitive than adults to morphine due to reduced hepatic conjugating capacity

18) Pt under GA, decrease ventilation and O2 Sat, next step?

Head up, 02, lavage



19)Propofol all true except

- -Myoclonic movement
- -Carcinogenic effects??

2 03 anti-convisiont

20)pt after local anesthesia suffer from tinnitus, numbness,,,,,

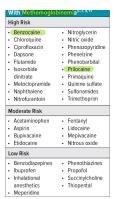
- CNS toxicity



21) Methemoglobinemia ass with:

Procaine, Benzocaine Procaine, Bupivacaine Procaine, Lidocaine

Prilocaine , Benzocaine





22) Treatment of Anaphylactic shock?

-Adrenaline



23) Maintaince for 80kg pt (421)? V 40 +20 +60

120-

2 ml/kg/H + sec to K 1ml/kg/H -> (Ely)

24) Wrong regarding ketamine: it is NMDA receptor against (actually it is

antagonist)

NMDA -> Antagonist -> N20 + Kitamine

25) Wrong about LA?

-Hyperkalemia and Hypercalcemia antagonist block



26) all of the following are true about complete airway obstruction except?

Coughing - partial obs

nirway

Is unable to cough

27) child's upper airway Except

Select one:

a. tongue is larger

b. pharynx is smaller

c. epiglottis is larger

d. narrowest part thyroid cartilage - Larynx is more anterior and cephalad

e. larynx is more anterior

Anatomical Differences Between Pediatric and Adult Airways

Pediatric airway Proportionally smaller larynx

 Narrowest portion is the cricoid cartilage (below vocal cords) · Epiglottis is longer and narrower

· Neck is much shorter

Adenoids are are larger

28) about anesthesia machine, which one is true?

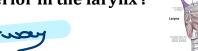
Machine a. Flowmeter are gas specific and flow rate depend on viscosity or density

- b. Increase temperature and hydration are disadvantages of humidification system XXX
- c. 02 cylinders colors maybe green or white and black in different countries color coding systems
- d. Inhalational agent itself is not a factor in affecting vaporizer output
- e. Pressure in oxygen cylinder H type 6000-8000 psi and come in form of gas

29) What structure is located more superior in the larynx?

25 of

✓ a. the epiglottis



بواب الدكتور First selective cox2 inhibitor in market ? paracetamol

31) Wrong about atracurium?

Dose 0.1-0.15



Celecoxib. Celecoxib was the first specific inhibitor of COX-2 approved to treat patients with rheumatism and osteoarthritis. A study showed that the absorption rate, when given orally, is moderate, and peak plasma concentration occurs after about 2-4

32) administration of a larg volume of normal saline(0.9) is likely to produce:

Select one:?

a. No change in acid base status

b. Hyperchloraemic metabolic acidosis

c. Hypochloraemic metabolic acidosis

SCL SK Met Acidely



- d. Hyperchloraemic metabolic alkalosis
- e. Hypochloraemic metabolic alkalosis

33)pt 68 yo m with <u>HTN</u> and <u>DM</u> presents to the ER with abrupt onset of diffuse abdominal pain with radiation to his low back. The pt is hypotensive, tachycardic, with cool but dry skin. What type of shock is this?

Select one:

- a. Obstrructive
- ✓ b. Hypovolemic
 - c. Cardiogenic
 - d. Septic
 - e. Anaphylactic





Pre medication

34) Which of the following is H2 histamine blocker:

4 Tidine



- b. levocetirizine
- c. Diphenhydramine



- ⋉a. can't prolong the QT interval in ECG
 - b. No extrapyramidal sign & Rafe of Can ondansetron cause extrapyramidal symptoms?
- **⋉c.** no respiratory side effect
 - d. causes sedation



36)anticholinergic HAS the following effects excent?

- a. No sedative effect
- ✓b. Parkinson
- ✓c. effect Muscarinic receptors
- d. mydriasis > Pupils Diladation / Wagis > para
- ✓ e. inhibit secretions



prusser 100/70,

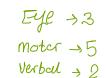
37) pt with a head injury is being monitored increased ICP his blood prusser 100/70, HR 110,icp 30, CVP 10, therefore his ccp is ? 50mmhg 20PP = 20

38) yore patient open there eye to verbal stimulation but unable to follow commads and displays a localization pain response . they grunt when noxious stimuli are provided but don't produce words . there GCS IS?

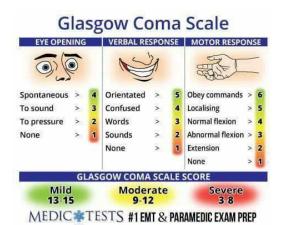


d.10

e.none of the above









b. Anesthesia final exam - wareed 2022

Done by: Mothana Al-takhanieh

(كثير كان في أسئلة برا من المادة)

12 4

1) Which of the following is H2 histamine blocker:



- a. cimetidine
- b. levocetirizine
- c. Diphenhydramine
- 2) Which is true about Ondansetron:



- a. can't prolong the QT interval in ECG
- b. No extrapyramidal sign
- c. no respiratory side effect
- d. causes sedation
- 3) Which is wrong about Metoclopramide:
 - a. It increases lower esophageal sphincter tone
 - **b.** the adult dosage is $30 \text{mg} \ \ (\cancel{10} \cancel{20} \text{ mg})$
 - c. It prevents nausea and vomiting
 - d. Causes rapid gastric emptying
 - e. is contraindicated in people with intestinal obstruction
- 4) Which of the following is Wrong about desflurane:
 - a. closely related to isoflurane
 - b. uses special electronic vaporizer
 - **X**c. can poroduce compound A
 - d. highly fluridated agent Scholulane
 - Me. has B:G CO of 2.6



- 5) Which of the following is wrong about Isoflurane:
 - ✓a. causes muscle relaxation
 - ✓ b. decreases liver and renal blood flow
 - replet ✓ c. metabolized by trifluoroacetic acid
 - ✓d. used for maintenance of anesthesia



Isoflurane

Pre medication

- Kidney
- Small volume of concentrated urine
- Rapidly reversed
- No long-term renal sequelae or toxicities
- Concentration dependent splanchnic and hence
- flow reduction

 LFTs minimally affected by isoflurane

- 6) What's mac for isoflurane in awake patient:
 - a. 1.2
 - b. 0.3
 - c. 2.4
 - d. 0.6



-1MAC AWAKE (100% awake awareness) = 0.3 * NORMAL MAC

%100 -2unconscious = 1.3 * normal MAC

7) What is the minimum 02 pressure in emergency stores:

MAC = 192

- a. 500 psi
- b. 1000 psi
- c. 1500
- d. 2000
- e. 2500

02 therapy

3. Oxygen cylinders can store gas at pressures ranging from 2000 psi to 3000 psi depending on the specific design and intended use.



مكل بنبض	940 0× 950			
8-	The wavelength of the infrared led in pulse oximetry:			
	a. 660	67	Thera	Py
	b. 1000	-		
	c. 940			
0	-	TI	P0 11	
9-	Which is incorrect with regards to hypocalcemia:	10	flui2	
	√a. it causes QT prolongation	_		
	b. treatment with calcium may not work if mag	•	_	en as well
	∕c. iv administaiion oi cadum requires cardiac n	nonito	ring	
	∕d. it is seen in pancreatitis			X
	e. hypervenflaiion produces tetany by causes a	id in t	the total boo	dy calcium
10.	What does not cause impaired accuracy of the pulse sw	imma	r'	
10	a. ambient light		Pulse Oximetry	,
)	Causes of false read	
	b. caboxyhaemoglobin		Carboxyhemoglobin Methaemoglobin	Ambient light False alarms
	c. methaemoglobin	•	3. Anaemia	8. Motion artefact
	d. hypothermia -> VC -> Impair Pulse Oximetry.		4. Dyes	9. Skin pigmentation
	e. xray beams		5. Nail polish	10. Low perfusion state
			·	
	What from the following predict difficult intubation in b	oariatr	ric surgery?	
سكال حال لنف	a. BMI > 40 wirway	The pr	resence of two of the follow	ving risk factors indicates a high
مببر	✓ D. Shoring		nood of difficult mask ventilance of beard	ation:
	c. increased neck circumference only	Body r	mass index > 26 kg/m2	
	(d)increased neck circumference + mallpatite 3	Lack of Age > 5	of teeth 55 years	
	3 Moulampedi 3		ry of snoring Nobele -> Ratio	[Dack . Housewhat]
12-	Hypoxemia is:			Cramference o Distanz
	a. low oxygen levels in your blood	1 wo	4	
	b. low levels of oxygen in the tissues of your bo	dv and	d low oxvge	en levels in
	your blood		78	
	c. low levels of oxygen in the tissues of your boo	dv 。	LUM On Vice	
	or low levels of onygen in the dissues of your so	uy —) [programme, and the	
/12-	What mixture of gases are used in anesthesia?			
V 13-				
		nois		
	b. 02 and COZ			
	c. COZ and N20			
	d. 02, COZ and N20			
	e. 02 and He			
مئل نبغه				
14-	Which of the following isn't represented in the ECG:			
	a. atriai depoiarization			
	b. ventricular repolarization			
	c. atrial repolarization			
	d. hyperkalemia			
			_	
15-	A central line can be used for all of the following EXCEP	T whi	ch one :	
	a. Administer fluids			
	b. Administer medications			
	c. Obtain blood for labs			
	d. Obtain blood for ABGs			
	e. CVP monitoring			
	U			* * IIg * William
				العب بجرات

16- In ECG the leads v1 v2 represent:				
a. Septal				
b. anterior wall	FCG			
c. lateral wall				
d. inferior wall				
u. interior wan			4	
17- a 22 year old male presents following pain, opens his eyes only to pain and use a. 8	_			
ر المحتفد				
18- A cigarette vendor was brought to the she fell into the ground and hurt her left tachypneic. Painkillers were carried out complaining that she is still in pain and paraesthesia. Measurement of arterial be Paco2 31 mm Hg, and HcO3 25 mmol/L. Select one: a. Respiratory Alkalosi b. Respiratory Acidosis c. Metabolic Alkalosis, d. Metabolic Alkalosis, e. Respiratory Alkalosi	leg. She is noted to lessen her pain ow experiencing lood gas reveals What does this many series, Uncompensated Partially Compensated	to be tachycan. Suddenly, g muscle cranpH 7.6, PaO2 nean?	ardic and she started mps, tingling 120 mm H	l ıg, and g,
		02 Th	en py	
19- nasal canula 2L/MIN F1o2 is:	2221 2221		_	
		24% to 1	•	
c. 28%-29% e. 40%	l. 36%-37%	88 % to 8	2L/min	
20- If you want to give a patient 02 with a. simple mask	a flow of 40% w	hich of the fo	ollowing to	use:
b. Venturi	02	Oz device	Frow rate	2u-uu1
c. non rebreather mask	Therapy	1. nasal canula	1-6 L/min 6-10 L/min	35 - 60%
d. nasal cannula		& parial rebrowner	minimum 6 L/min	90%.
e. rebreather mask		4 non representati	6-15L/min	95 – 100%
c. repreduct mask		(High From)	0-13L/min	
✓ 21- COPD patient what will you use to gi	ve 02 therapy:	S. Venturi work COPP	4- 15 L/min	vo - 50%

a. nasal cannula

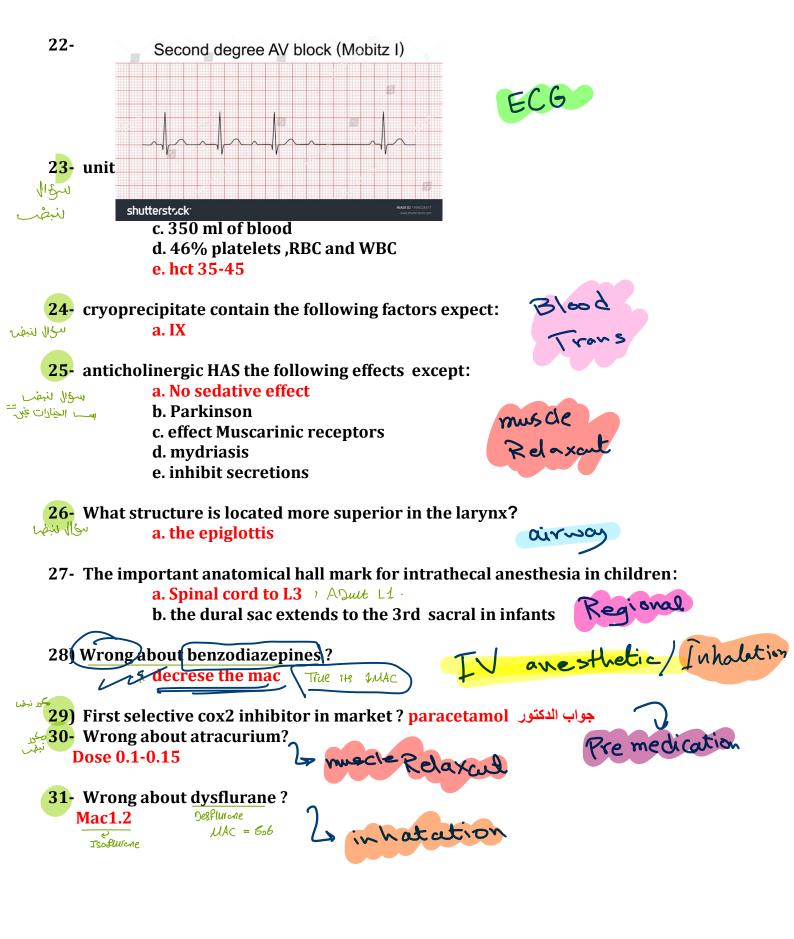
b. simple mask

c. non rebreather mask

d. Venturi 🗸

e. rebreather mask







Anesthesia final exam - Serotonin 2021

- 1. Anesthetic plan should include the following except one: Select one:
- ✓a. Patient premedication
- b. perioperative monitoring
- <u>c. Anesthetic procedure</u>
 - d. Preoperative fluid and blood therapy are a surgeon responsibility
- e. Postoperative pain control
- 2. The epidural space is located between the

Select one:

- a. arachnoid and pia mater.
- b. dura and arachnoid mater.
- c. dura mater and the ligamentum flavum.
- d. arachnoid mater and the vertebral muscle layer.
- e. arachnoid and the ligamentum flavum
- 3. Urinary osmolality

Select one:

- a. in the presence of oliguria is a good indicator of renal function
- b. will increase more than specific gravity with an osmotic dieresis due to glucose
- c. is measured by elevation of the freezing point
- d. is expressed in milliosmol.l-1
- e. in severely ill patients gives an indication of the effectiveness of frusemide
- 4. what is the fluid used with administration of blood products?

Select one:

- a. N/S
- b. R/L
- c. D5W
- d. HES
- e. A and B
- 5. Halothane effects in CNS except one Select one:
- __a. Increases cerebral blood flow
 - b. Maintain organ stores lation
- c. Decreases cerebral 02 consumption
- ✓ d. Decreases cerebral metabolism
- ✓ e. Increases ICP
- 6. Minute ventilation is equal to...

Select one:

- a. FiO2 X PEEP
- b. FiO2/PEEP
- c. PEEP/FiO2
- d. Tidal Volume X Respiratory Rate 🖊
- e. Tidal Volume/Respiratory Rate



- The plan should include the following:
 - A premedication.

 Need standard ASA monitors. However, if the patient may experience large hemodynamic fluctuations, invasive monitoring should be considered (e.g., centra venous pressure for volume monitoring, arterial line for potential hemodynamic instability.

- A review of anesthetic options; general anesthesia, regional anesthesia, and combinations thereof shot be reviewed and options appropriate for the patient
- Plan for postoperative pain control









fluid.





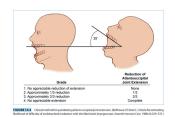


7. Preoperative physical examination:

Select one:

a. mouth opening at least 2 fingers & & Payers.

- b. malampati score 2, 3 difficult intubation 9 314
- c. thyromental distance 5 cm at least >6cm
- d. atlanto-occipital joint extension should be approximately 35 degree
- e. Cormack score 4 only epiglottis visible 50% 3



8. The followings are <u>body core</u> temperature monitoring sites except Select one:

- a. Tympanic membrane
- b. Nasopharynx \leftarrow
- c. Carotid artery site
- d. oesophagus
- e. Sigmoid

Therefore, the nasopharynx is a frequently used temperature monitoring location during surgical procedures. The optimal site for nasopharyngeal temperature measurement is near the internal carotid artery. Oct 10, 2021

9. The followings are blood richly supplied organs except:

Select one:

- a. Brain
- b. Fatty tissues 🗸
- c. Kidneys
- d. Liver.
- e. heart and lungs



10. What is not a cause of hypercalcemia?

Select one:

- a. post prandial measurement
- b. tuberculosis
- c. lung Ca
- d. hypomagnasemia → μγρο Ca⁺
- e. renal failure

11. Which is not a possibility in the ECG of a pt with hypokalemia? Select one:

a. prolong PR interval 🗸

a. prolong PR interval \checkmark

c. T wave flattening or Inverted.

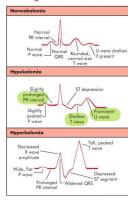
d. Prolonged QT interval -Notmed

e. T wave inversion in praecordial leads <



IV fluid





ECG EKG Changes in Hypokalemia and

12. One of the following device provides fixed performance oxygen therapy? Select one:

- a. Nasal cannula
- b. Simple mask
- c Partial rebreather mask
- ✓ d. Venti mask ✓✓
 - e. 02 by T-piece





√13. Regarding middle airway anatomy "(larynx), the largest cartilage; Select one: a. thyroid cartilage b. cricoid cartilage c. tracheal cartilage d. corniculate cartilage e. arytenoid cartilage Goals for Pharmacologic Premedication Primary Goals for Pharmacologic Premedication مش اکید .The followings aims of premedications except one: مش Anxiety relief (anxiolysis) Select one: Sedation Analgesia a. Minimizing anxiety 🗸 6. Antisalogogoue effect b. preoperative pain relief \checkmark Increase in gastric fluid pH 8. Decreased in gastric fluid volume c. To prevent allergic reactions under anesthesia \checkmark 9. Attenuation of sympathetic nervous system reflex responses d. reduces aspiration pneumonitis 10. Decrease in anesthetic requirements 11. Prophylaxis against allergic reactions e. Valium as premptive analgesic 15. What's the first thing you should do before beginning CPR if you see an adult collapse and the person is unresponsive? Select one: a. Remove the victim's belt b. Check the victim's mouth c. Call 911 d. Call the victim's doctor e. Chest compression

16. A cigarette vendor was brought to the emergency department of a hospital after she fell into the ground and hurt her left leg. She is noted to be tachycardic and tachypneic. פנע.

Painkillers were carried out to lessen her pain. Suddenly, she started complaining that she is still in pain and experiencing now muscle cramps, tingling, and paraesthesia.

Measurement of arterial blood gas reveals pH 7.6, PaO2 120 mm Hg, PaCO2 31 mm Hg, and

HCO3 25 mmol/L. What does this mean? OF The alesis Select one:

a. Respiratory Alkalosis, Uncompensated

b. Respiratory Acidosis, Partially Compensated

c. Metabolic Alkalosis, Uncompensated

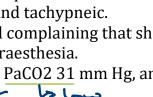
d. Metabolic Alkalosis, Partially Compensated

e. Respiratory Alkalosis, Compensated

17.child's upper airway

Select one:

- a. tongue is larger
- b. pharynx is smaller
- c. epiglottis is larger
- d. narrowest part thyroid cartilage
- e. larynx is more anterior









18. The followings predispose to delay recovery from general anesthesia except Select one: Certain underlying complication metabolic disorders such as ✓a. Chronic hypertension hypoglycemia, severe hyperglycemia, ✓b. Hepatic insufficiency and electrolyte imbalance, especially hypernatremia, hypoxia, hypercapnia, c. Hyperthyroidism of clearance central anticholinergic syndrome, ∠d. Renal insufficiency chronic hypertension, liver disease, hypoalbuminemia, uremia, and severe ✓e. Hyper or hypoglycemia hypothyroidism may also be responsible for delayed 19. All of the followings are contraindications for epidural analgesia, EXCEPT: Select one: a. Systemic infection Unstable patients (sepsis, hypovolemia) Inadequate resuscitative drugs and equipment.
Uncooperative patients. (Psychiatry, pediatrics) b. Abnormal hemostasis Neurological disease: Any worsening of the disease c. Increased intracranial pressure d. History of laminectomy 15 years ago Raised intracranial pressure. e. Patient refuse ≥ 20. A central line can be used for all of the following EXCEPT which one? Select one: a. Administer fluids b. Administer medications c. Obtain blood for labs d. Obtain blood for ABGs e. CVP monitoring 21. A man is found on the ground outside a homeless shelter. When you give him a sternal rub, he opens his eyes, tells you to go away, and pushes your hand away. What is his Glasgow

Coma score * GCS *

Select one:

a. 8

b. 9

c. 10

d. 11

e. 12

22. What is seen earliest in an ECG of hyperkalemia?

Select one:

a. Sine wave

b. Peak T wave

c. Flattened p wave

d. QRS widening

e. AV dissociation



23. What is not a cause of hypercalcemia?

Select one:

a. post prandial measurement

b. tuberculosis

c. lung Ca

d. hypomagnasemia 🗦 🎎 🖧

e. renal failure





24. The followings increases susebility to scoline induced hyperkalemia except.

mplication

Select one:

a. Spinal cord transection

b. Severe burn

c. Severe sepsis

d. Severe metabic alkalosis y Acidosis

e. Near drawning syndrome

25.at anatomical level is T10?

Select one:

P T10 > Demoutomes

y a. Level of the <u>umbilicus</u> y

b. Level of inferior angle of scapula

c. Level of the nipple

d. Level of the illiac crest

e. Level of PSIS

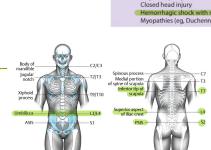


TABLE 11-5 Conditions causing susceptibility to succinylcholine-induced

hyperkalemia.



26.In cap organic monitoring s all are true except one

Select one:

a. To confirm adequate ventilation

b. Ventilatory control in high intracranial pressure

c. Air embolism

d. Major complication after neurosurgery

e. Severe anemia

complication

27. What is the oxygen flow rate of this device?

Simple 35.60'1.

Select one:

a. 24-44 ml per min

b. 30-40 ml per min

∕c. 35-60 ml per min

d. 60-80 ml per min

e. 80-100 ml per min



fore Mosk

28. The most frequently reported narcotic-related side effect of epidural analgesia is Select one:

* a. pruritus

b. hypotension

c. urinary retention

*d. nausea and vomiting

e. Bradycardia

Incidence	
Frequent (up to 7%)	
Very common (5.1 – 37%)	
Likely increased but incidence is	
unreliable as many patients were	
catheterised perioperatively	
Very common (≥25%)	

29. The followings are color coding of anesthetic gases except one

Select one:

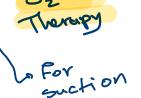
a. White for 02

b. Blue. Nitrous oxide

c. Grey for CO2 \checkmark

✓d. Yellow for air 🗙

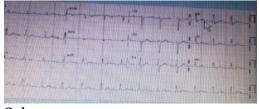
e. Black for nitrogen







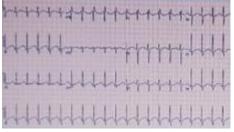
30. What is the diagnosis?



ECG

Select one:

- a. atrial fibrillation
- b. First degree heart block
- c. Mabitz 1
- d. anterolateral myocardial infarction
- e. Normal sinus rhythm
- 31. What is the diagnosis? Select one:





- a. atrial fibrillation
- b. lateral myocardial infarction
- c. anterior myocardial infarction
- d. anterolateral myocardial infarction
- e. Supraventricular tachycardia
- 32. The following may contradict premedications except:

Select one:



- b. Severe lung diseases
- c. Severe hypovolemia
- d. High ICP intracranial X WSe premed.
- e. Depressed mental status

Fentanyl has been used in premedication to blunt increases in ICP related to laryngotracheal stimulation in rapid sequence intubation (RSI) [23, 24], in a

Etomidate and propofol may be the preferred agents to facilitate intubation in hypertensive patients with elevated ICP. It is crucial to avoiding post-intubation hypotension and to maintain adequate sedation and analgesia. Aug 1, 2017

Relative contraindications to sedative premedication:

New born < 1 year, elderly
Decreased level of consciousness, intracranial pathology
Severe pulmonary pathology
Hypovolemia
Airway obstruction or airway surgery, sleep apnea
Severe hepatic and renal disease
Rapid sequence induction

33. The followings are related to benzodiazeine use in anesthesia except use and doses of commonly used benzodiazepines.

a. Increases hallucinations after ketamine X

b. As premedicant

c. As IV. Inductive agent \checkmark

d. As Anticonvulsant

e. Sympatholytic agent 🗸

IV anesthesia

Obstetric anesthesia

¹IV, intravenous; IM, intramuscu ²Maximum dose is 15 mg.

_34.administration of a larg volume of normal saline(0.9) is likely to produce:

Select one:

- a. No change in acid base status
- b. Hyperchloraemic metabolic acidosis
- c. Hypochloraemic metabolic acidosis
- d. Hyperchloraemic metabolic alkalosis
- e. Hypochloraemic metabolic alkalosis





35.A man is found on the ground outside a homeless shelter. When you give him a sternal rub, he opens his eyes, tells you to go away, and pushes your hand away. What is his Glasgow Coma score

Select one:

- a. 10
- b. 11
- c. 12
- d. 13
- e. 14





36.pt 68 yo m with HTN and DM presents to the ER with abrupt onset of diffuse abdominal pain with radiation to his low back. The pt is hypotensive, tachycardic, with cool but dry skin. What type of shock is this?

Select one:

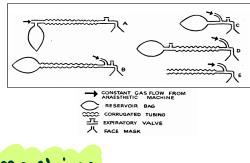
- a. Obstrructive
- b. Hypovolemic
- c. Cardiogenic
- d. Septic
- e. Anaphylactic

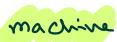


37. what is the name of this device?



- a. Mapleson A
- b. Mapleson C
- c. Mapleson D
- d. Mapleson E
- e. Mapleson F





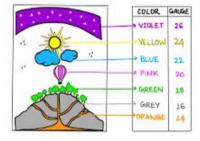
38. what is gauge of this cannula?



Select one:

- a. 24
- b. 22
- c. 20
- d. 18
- e. 16





- 39. Which is the most important physiological parameter monitored in the intensive care unit?
 - a. Temperature
 - b. Heart rate
 - c. Blood pressure
 - d. Skin color





presence of arrhythmias or to detechanges in the heart rate that migh

Anesthesia final exam - watan 2020

Done by :Mohammad rabai &Abdelrahman bdeir

Inhalation

- Q1- Which of the following is known as laughing gas?
- a. CO2
- b. N20 XXX
- c. NO2
- d. B20
- e. He
- على الهبد طبعا ? Q2- regarding obstetric anesthesia, which one is true
- a. Second stage of labour originates from pudendal nerve and it is only somatic pain XXX
- b. Transcutaneous electrical nerve stimulation could cover first and second stage of labour
- c. Fentanyl is the drug of choice for labour analgesia
- d. Spinal anesthesia with hyperbaric bupivacaine is the best option for second stage of labour
- e. Intralipid 20% is the drug of choice for managing intravascular injection

Q3- all of the following have an antiemetic action except?

- a. Promethazine
- b. Propofol

c. Etomidate XXX Nausea + Vomiling.

d. Haloperidol Locange vanes e. Sevoflurane

Q4- pt 68 yo m with HTN and DM presents to the ER with abrupt onset of diffuse abdominal pain with radiation to his low back. The pt is hypotensive, tachycardic, with cool but dry skin. What type of shock is this?

- a. Obstrructive
- b. Hypovolemic XXX
- c. Cardiogenic
- d. Septic

 $\sqrt{05}$ - which one of the following device provides fixed performance oxygen therapy?

- a. Nasal cannula
- b. Simple mask
- c. Partial rebreather mask
- d. Venturi mask XXX
- e. 02 by T-piece



Q6- Which one is true?

- a. Moderate hypothermia is characterized by pale skin and temperature between 28-32 XXX
- b. Anuria defined as urine output less than 150ml/day
- c. Normally urine is slightly acidic and with pale color

d. Increase is urine specific gravity is due to high water intake, absence of ADH and acute

nephritis

e. slurred speech occurs in severe hypothermia



Severity	Neurologic	Cardiac	Pulmonary	Renal	Typical therapy.
Mild (HT1)* 32-35C 90-95F	Alert, shivering* Ataxia Impaired judgement	Tachycardia Hypertension	Tachypnea Bronchorrhea	Cold diuresis	Exposure-related: Passive external rewarming (e.g. blankets) Spontaneous: Warming blanket
Moderate (HT2)* 28-32C 82-90F	Drowsy, non- shivering* Delirium Paradoxical undressing Dilated pupils	Bradycardia Hypotension Atrial fibrillation	Hypoventilation	Cold diuresis	Active external rewarming - Warming blanket - Warmed/humidified air (If possible, fluid being administered should be warmed)
Severe (HT3)* 24-28C 75-82F	Unconscious with pulse® Coma Fixed dilated pupils Areflexia	Heart block Cardiogenic shock	Pulmonary edema Agonal respirations	Oliguria	Active external rewarming (see above). If refractory shock or hypothermia, also consider active internal warming (e.g. thoracic/bladder lavage).
Pulseless (HT4)* <24C <75F	Appears dead	Pulseless* - Ventricular arrhythmia - Asystole	Apnea		Active external rewarming plus Active internal rewarming - Ideally: ECMO or cardiopulmonary bypass - Alternative: thoracic lavage

Q7- according to hypoxia	classification	a correct e	xample	of h <u>isto-to</u>	xic hypoxia is:
a. Status asthmatics					
b. Thyrotoxicosis		- C.			
c. Heart failure		70	י		
d. Cyanide poisoning XXX					
e. Seizure					
Q8- Minute ventilation is	egual to?	TVXR	8		
a. FiO2 X PEEP	equal to:				
b. FiO2/PEEP			027	here ov	
c. Tidal Volume X Respira	tory Rate XX	X ///	- 2 \	herapy	
d. Tidal Volume/Respirate	•				
e. FiO2 X PaO2					
Q9- all of the following op	oioid are pure	agonist and	d partial	l agonists e	except?
a. Sufentanil	Table. Opioids an	•			
b. Buprenorphine	Opioid category	Examples	Action at mu receptor	Action at kappa receptor	
c. Nalbuphine XXX → Antagoni	Pure agonist	Morphine, codeine, meperidine, fentanyl, remifentanil,	Agonist	Agonist	Opore
d. Remifentanil Agaist		hydromorphone, oxymorphone, methadon			
e. Morphine	Agonist-antagonist Pure antagonist Partial agonist	t Butorphanol Naloxone, naltrexone Buprenorphine	Antagonist Antagonist Partial agonist	Agonist Antagonist Partial agonist/weak	
•	Tartar agonist	Виргеногрине	T al clai agomist	antagonist	
Q10- what is the fluid use	d with admir	nistration of	blood p	roducts?	
a. N/S XXX b.	R/L	R	5-0/0	Tools	a
c. D5W d.	HES		713-0		_
e. A and B					
Q11- all of the following a	·	ehydration e	except?		1. All of the following are signs of dehydration
✓a. Progressive metabolic a				3/	except: A. Progressive metabolic acidosis. B. Urinary specific gravity >1.010
b. Urine specific gravity >		. 0	70	V /	C. Urine osmolality <300mOsm/kg D. Urine sodium <10 meq/l
c. Urine osmolality< 300 r		7700	SV	week.	C. When debudented notice to with normal
d. Urine sodium < 10mEq	/1 =				C. When dehydrated, patients with normal renal function will retain sodium and produce a concentrated urine. Urine osmolality is
e. Normal heart rate XXX					typically greater than 450 mOsm/kg in this setting. Urine sodium will be low, and specific
042 1 . 1 1	.1	1 . 1	. 2		gravity will be high.
Q12- about malignant hyp		vnich one is	ture?		muscle Relaxant?
a. Mostly autosomal reces		magaatan.	ماماطالماما	N	msde Let
b. The earliest sign is hype			rigidity		
c. More common in adults	-		o and ac	vro flumon o	
d. Triggering agent includ					
e. Hyperthermia usually o	iccui early iii	the event o	ı ınangn	iant nyper	uiei iiia
Q13- Which of the followi	ng are not co	ncidered 20	nredict	ors of diffi	icult intubation in nre-
anaesthetic examination?		iisiaci ca as	predict		icult intubation in pre-
a. Mallampati test					
b. Thyromental distance					~
c. Protrusion of mandible	XXX		Dix	way	3
d. Cormack-Lehane grade			1		
e. Trachea centralization					
و: Trachea centralization مادر Q14- a 22 year old male p	resents follo	wing a moto	r vehicl	e accident	the withdraws to
pain,opens his eyes only t		_			
a. 6 b.	=				
	9 XXX		11		C
e. 10			Tlead	· Inda	
					طبانبرالفان حـنــــــــــــــــــــــــــــــــــ

Q15- the main reason <u>Desflurane</u> is not used for inhalational induction in clinical practice is because of?

- a. Its low blood/gas partition coefficient
- b. Its propensity to produce hypertension in high concentration
- c. Its propensity to produce airway irritability XXX
 - d. Its propensity to produce tachyarrhythmias
 - e. Its lipid solubility



Q16- according to criteria of admission to intensive care unit one correct:

- a. Patient needs FIO2 less than 60%
- b. Pao2 less than 70mmhg
- c. PaCo2 more than 55mmhg XXX
- d. GCS less than 14 score
- e. PH is 7.4

- Admitted to ICU criteria in general very important
 - · compromised airway
 - GCS <= 12
 - Unstable vital sign pH <=7.2 or 7.5

 - PaO2<60 HYPOXIA

Mir wa



Q17- all of the following are true about nasal airway except?

- a. May cause bleeding <
- b. Does not protect from aspiration -
- c. May precipitate laryngospasm and vomiting
- d. Contraindicated in head injuries and awake patient XXX
- e. Easier to insert than oral airway

Q18- administration of a larg volume of normal saline(0.9) is likely to produce: IV fluid

- a. No change in acid base status
- b. Hyperchloraemic metabolic acidosis XXX
- c. Hypochloraemic metabolic acidosis
- d. Hyperchloraemic metabolic alkalosis
- e. Hypochloraemic metabolic alkalosis

Q19- succinylcholine is contraindicated in a patient with?

- a. Chronic renal failure XXX
- (b) Duchene muscular dystrophy
- 🤊 c. Myasthenia gravis 🔰 🚕
- d. Patient with full stomach
- ve. Patient with potassium 5.0 mEq/L ⋈ (I when by

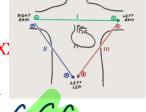




Contraindications: hyperkalemia, bedridden patients, rhabdomyolysis muscle trauma, burns, infusion of neuromuscular blocking agents, acute renal failure, chronic renal failure, intraocular hypertension, intracranial hypertension, statin use, malignant hyperthermia, neuromuscular disease spinal cord sectioning, bradycardia < 50 bpm, succinylcholine allergy, and pseudo-cholinesterase deficiency



- a. Positive electrode on the right arm and the negative electrode on the left leg
- b. Negative electrode on the right arm and the positive electrode on the left leg XI
- c. Positive electrode on the right arm and the negative electrode on the left arm
- d. Negative electrode on the right arm and the positive electrode on the left arm
- e. Positive electrode on the left arm and positive electrode on the right leg

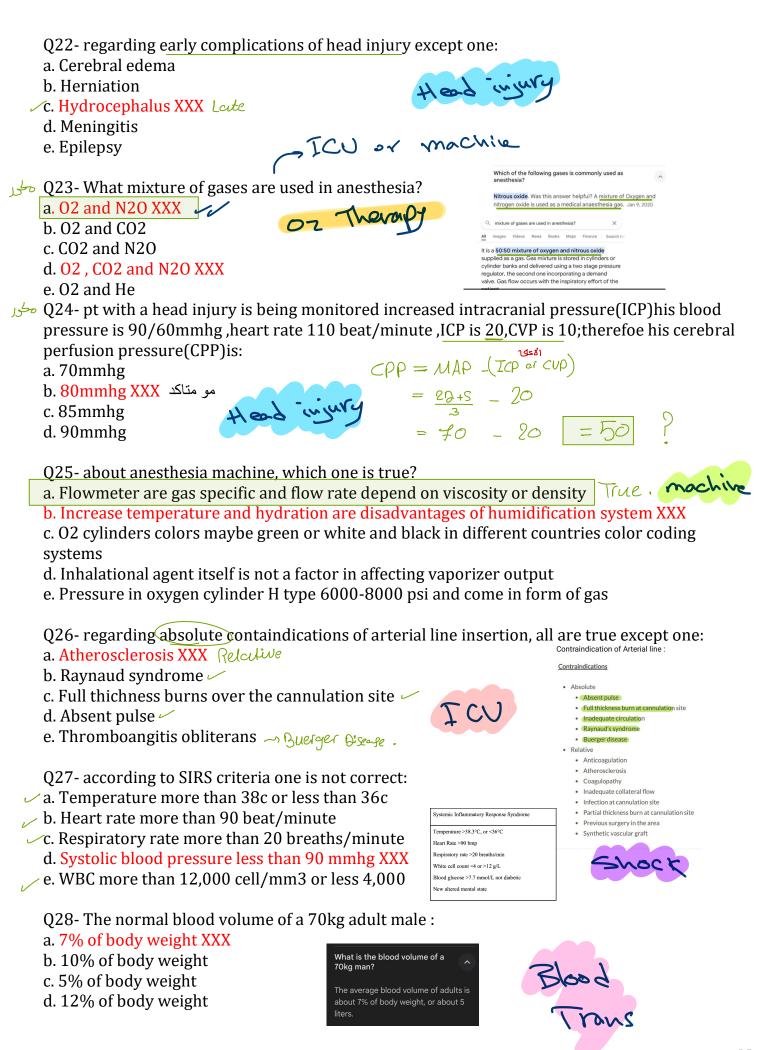


Q21- A patient with cerebral edema would most likely be order what type of solution?

- a. 0.45% Normal Saline
- b. 0.9% Normal Saline
- c. Lactated Ringer's
- d. 0.225% Normal Saline
- e. 3% Saline XXX \rightarrow Lypertonic



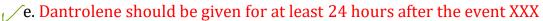






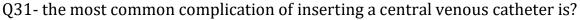
Q29- about malignant hyperthermia, which one is true?

- a. First step of treatment is giving dantrolene
- b. It is acquired hypermetabolic muscle disease
- c. The severe hyperthermia is usually the cause of death
- d. Prophylactic dantrolene is mandatory in diagnosed cases before induction of general anesthesia $\hspace{0.2cm} imes$



Q30- severe neurotrauma is not associated with:

- a. Focal neurological deficit
- b. Post traumatic seizure
- c. Palpable depressed fracture
- d. GCS of 14 XXX 13-15 → mile | Sever < 9
- e. None of the obove XXX

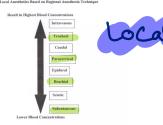


- a. Carotid artery puncture
- b. Thrombosis
- c. Cardiac arrhythmias
 - d. Air embolism
 - e. Infection



Q32- What is the correct order for absorption of local anesthesia according to the site of injection?

- a. Brachial>sciatic>subcutaneous>epidural
- b. Tracheal>paracervical>intercosal>brachial
- c. Epidural>brachial>intercostals>paracervical
- d. Tracheal>paracervical>brachial>subcutaneous XXX
- e. Intravenous>intercostals>brachial>epidural

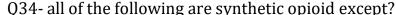


muscle Rolaxon

Head

Q33- you are performing epidural injection on awake 40 years old patient who is healthy with no significant medical history. Soon after injecting 20ml of 0.25% bupivacaine the patient become agitated, has a seizure and loses consciousness. your first step in management is?

- a. Administer lipid
- b. Administer midazolam or propofol to control seizure XXX
- c. Establish airway and give 100% oxygen via face mask
- d. Administer epinephrine
- e. Administer amiodarone to prevent arrhythmias



- a. Pentazocine
- b. remifentanil
- c. Methadone
- d. Pethidine
- e. Levorphanol



Q35- in order for a brain death not to be considered valid, the following criteria must be met:

- a. Date, time and signature
- b. Patient's name, diagnosis and events surrounding admission
- c. Date and time
- d. Date, time, deagnosis and time
- /e. None of the above XXX





Q36- About function of the nerve fibers, which one is true?

- a. A alpha > proprioception, pressure
- b. A delta >temperature, pain, pressure
- c. C > pain, preganglionic sympathetic, reflexes
- d. B > preganglionic, sympathetic XXX



	of Nerve Fibres Gasser Classification)
Fibre Type	Functions
Type I- Aα (myelinated)	Somatomotor, Proprioception
Type II- Aβ (myelinated)	Touch, Pressure
AY (myelinated)	Muscle Spindle
Type III- Aδ (myelinated)	Pain & Temperature
B (Myelinated)	Preganglionic autonomic
Type IV- C (non myelinated)	Post ganglionic autonomic, Pain, Temperature

✓ Q37- which of the following is not apart of the clinical brain death exam?

- a. Facial reflex
- b. Doll's eyes
- c. Cold calorics
- **d**. Trigeminal reflex
- e. None of the obove



Brain stem reflexes					
	Afferent	Efferent			
Corneal reflex	ophthalmic	facial			
Papillary reflex	optic	oculomotor			
Gag reflex	glossopharyngeal	vagus			
Tracheal reflex	vagus	vagus			
Important note:					
vestibulo-ocular/oculocephalic reflex; the most clinically important reflex to diagnose brain death					

Q38- Pt 55 yo m with hx of HTN,DM presents crushing substernal cp ,diaphoresis ,hypotension ,tachycardia and cool,clammy extremities .What type of shock is this ?

- a. Obstrructive
- b. Hypovolemic
- c. Cardiogenic XXX
- d. Septic
- e. Anaphylactic



Q39- what type of maplesone circuit is an Ayre's T piece?

- a. D
- b. B
- c. A
- d. E XXX
- e. F

		FG1 APLV	Spontencous	Dediatric	Modification
	(Magill) Meplesons A	FGI MAY RB APDI MAY FACE MASK	best for sport. poorest for cent	Adult	Henclosed Agill sylven gcoaxial((acks execut) provides Scowngening
7	Yaplasmis B	=FGI=APLV∑ close +0 Foce yousk	* Joshe: A)	> efficient	-
	Hepkson's C	* Similar to B	, but shorten	brankhing tub	
	Uapleson's D	apposik of A	best for controlled	Adult	molified into Bain cleart
	Ueplesmíc E AyresT-Piece)	FG1→ Fice mask <u>No</u> APLV	Not good for spontaneous	Pediatric	* Tackson- hee's Medification
1	Lalkson's F Tackson's T Rec's Hadilioation	same as & +there is AB	allows controlled and scowinging	Rediatric	if Maplesms E result in Maplesms E
)		

Q40- all of the following are true about esophageal tracheal combitube except?

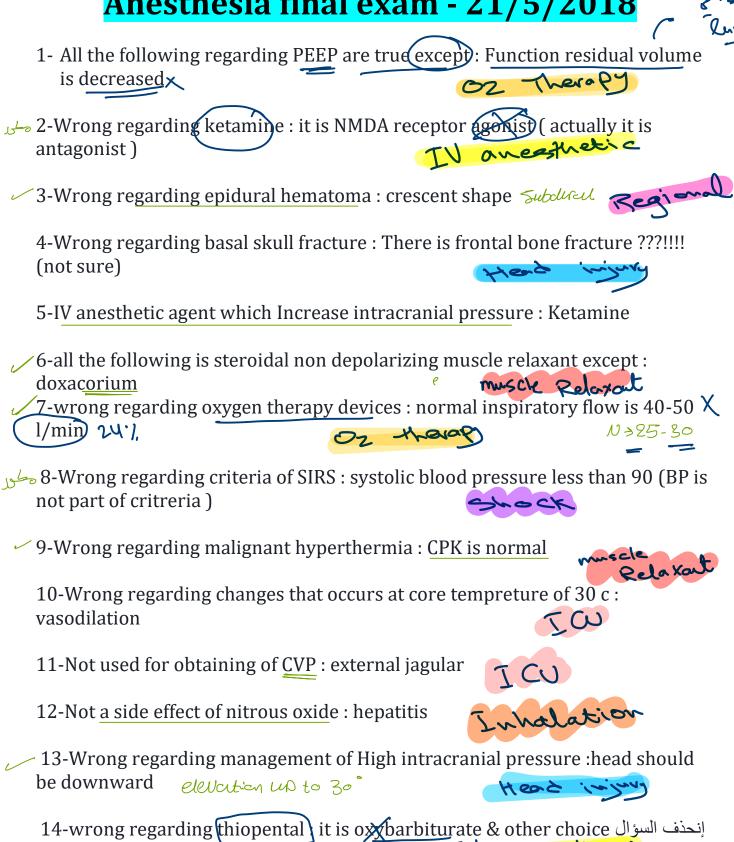
- a. Can be used in patient with neck injury
- b. No risk of aspiration
- c. Cannot be used in patient who ingested a caustic material
- d. Can be used by any health care provider
- e. Proximal part occlusion is one of the advantages XXX







Anesthesia final exam - 21/5/2018



15-wrong regarding LA: sensory is more sensetive than autonomic Autonomie 7 sensory moto

16-Ambu bag with reservoir how much O2 saturation: 90-100%

Oz therap

17-wrong regarding subdural hematoma: due to middle meningeal artery
laceration
18-Wrong regarding components of ringer lactate: 2 mEq/L of magnesium Ringer lactate solution Composition Composition Concentration (mg/100 mL)
19-Pressure at full 02 cylinder: 1800-2200 - 7
20-wrong regarding Morphine side effect: respiratory stimulation
21-An example of hypoxic hypoxia : Status asthmaticus
22-Wrong regarding Locked in syndrome : normal sleep awake cycle
23-All of the following increase susceptibility to postoperative nausea and vomiting except: smoking
/24-Best drug for postoperative nausea and vomiting: Antiseritonin ondansetra.
25-One thing we should consider in FFP transfusion : Blood matching FFP transfusions must be ABO compatible, but Rh compatibility and cross-matching are not required
26-Wrong regarding apnea test at brain death criteria: one doctor should perform this test
antibiotic in every patient 27-Not a part of classical managent of ICU Patient (FAST HUG): empirical antibiotic in every patient
28-All the following will increase susceptibility of laryngeospasm except) Propofol Tours thesia
29-Wrong regarding benzodiapines: Used as premedication in symptomless patient ???! (not sure)
30-Decrease dose of propofol at elderly due to: Brain atrophy?? TV oneshoes
31-all of the following increase MAC except : hypernatremia! (it could be HTN also!!)
32- Wrong regarding arterial line : ABG can't be obtained from arterial line اکید
33-Wrong regarding albumin colloid solution: it is synthetic Albumin Tylind
34- The relationship between dose given and tissue concentration of drug and elapsing time is : pharmacokinetic 22.

35- All of the following are contraindications of premedication except: severe thyrotoxicosis

36- FiO2 is affected by one of the following: Fresh gas flow

37-one of the following is an indication for ICU admission: GCS less than 12

38-wrong regarding succinylcholine: metabolized by acetyl cholinesterase

39-Not a change that occur during 100% oxygenation for 48 hours : bleeding tendency due to coagulation defects

40- Wrong regarding ARDS criteria: it is a chronic syndrome more than 2 weeks

Symptom begin within 1 week of insult, or new/worsening symptoms in last 1 week Bilateral opacities on chest imaging* $PaO_2/FiO_2 \le 300$ while on $PEEP \ge 5$ cm H_2O Not fully attributed to cardiac failure and/or volume overload