

INDIAN SOCIETY OF ANESTHESIOLOGIST - CHENNAI CITY BRANCH

QUIZ - PRELIMS - ALL THE BEST

College_____

TIME – 30 MIN

11/11/2017

I PART

KINDLY WRITE "TRUE" OR "FALSE" FOR THE FOLLOWING STATEMENTS

S NO	STATEMENT	TRUE or FALSE
1.	Tyrosine is natural precursor of adrenaline	T
2.	Tramadol can be safely given to patients receiving MAO inhibitors	F
3.	Nitrous oxide has no effect on pulmonary vascular resistance	F
4.	Blood flow in right coronary artery is increased by intra coronary potassium	T
5.	In transdermal drug administration passage across subcutaneous fat is the rate limiting step for drug uptake	F
6.	Coaxial Lack circuit has the expired gases passing in the outer tubing	F
7.	Concerning pain pathways- A-delta and C fibres have cell bodies within the dorsal root ganglion	T
8.	Organophosphorous compounds inhibit acetylcholinesterases by phosphorylation of the anionic site of the enzyme.	F
9.	Intravenous regional anaesthesia (Bier's block) provides good post operative analgesia	F
10	The right main bronchus is more easily intubated inadvertently in the neonate than in adult	F

II PART

WRITE ANSWER FOR THE QUESTION IN SPACE PROVIDED

SNO	QUESTION	ANSWER
1.	Maximum rate of infusion of potassium should not exceed	_____40____m mol/hr
2.	In Pulse oximeter , Readings below _____ are extrapolated rather than from direct reference data, and are therefore unreliable.	70%
3.	A fall of _____mmHg in systolic BP defines pulsus paradoxus	10
4.	The echocardiogram report shows left ventricular end-diastolic volume of 125ml and end-systolic volume of 50ml. What is left ventricular ejection fraction?	60%
5.	ECG shows progressive lengthening of the PR interval until a ventricular beat is dropped. What is the conduction abnormality ?	Mobitz type 1
6.	Half life of Clotting factor VII	6 hrs
7.	_____ mg of hydrocortisone is equivalent to 20mg prednisolone	80 mg
8.	A pH of 7 = 100nmol/L of H ⁺ ions. Which of the following concentrations of hydrogen ions is equivalent to a pH of 9?	1 nmol/L
9.	A young male patient has a haemoglobin concentration of 10g/dL and his peripheral oxygen saturation (SpO ₂) is 100%. The oxygen carrying capacity of his blood would be:	____13.4____ ____ml/dL
10	. which is the end point of ketamine induction	Nystagmus

6.	<p>A newly developed local anaesthetic drug is said to have very high lipid solubility. In practical terms this translates to:</p> <ol style="list-style-type: none"> 1. Prolonged duration of action. 2. Rapid onset of action. 3. More sensory block than motor block. 4. Higher potency. 	4
7.	<p>Achilles tendon repair and pinning of a medial malleolar fracture under a popliteal fossa block. Which of the following nerves is MOST likely to require supplemental blockade?</p> <ol style="list-style-type: none"> 1. Deep peroneal nerve 2. Sural nerve 3. Saphenous nerve 4. Superficial peroneal nerve 	3
8.	<p>The man credited with the earliest documented use of diethyl ether for painless surgery is</p> <ol style="list-style-type: none"> 1. Henry Hill Hickman 2. Crawford W. Long 3. W.T.G. Morton 4. Horace Wells 	2
9.	<p>KETAMINE interacts with all of the following receptors except</p> <ol style="list-style-type: none"> 1. NMDA 2. GABA 3. Muscarinic 4. Monoaminergic 	2
10	<p>Which of the following IV anesthetic agents has highest degree of plasma protein binding</p> <ol style="list-style-type: none"> 1. Thiopental 2. Propofol 3. Methohexital 4. Etomidate 	2
11	<p>Rank the following induction agent in order of their degree of cardiovascular depression</p> <ol style="list-style-type: none"> 1. Propofol > etomidate > thiopental 2. thiopental > propofol > etomidate 3. Propofol > thiopental > etomidate 4. thiopental > etomidate > propofol 	3
12	<p>Achille Doglietti described what anesthetic technique ?</p> <ol style="list-style-type: none"> 1. Intravenous regional anesthesia of the arm 2. Loss of resistance to identify the epidural space 3. Blind nasotracheal intubation 4. Cervical spinal anesthesia 	2

13	<p>In a patient with BMI of 49 change in which of the following parameters confers the greatest advantage when pre-oxygenating her in the sitting (rather than supine) position?</p> <p>1.. Vital capacity. 2.Tidal volume 3.Closing capacity. 4. Functional residual capacity</p>	4
14	<p>The induction dose of propofol is best calculated based on for a patient with a body mass index of 48:</p> <p>1. Actual body weight. 2.. Ideal body weight. 3.. Lean body mass. 4. Ideal body weight + 20% total</p>	2
15	<p>A 35-year-old , a suspected amitriptyline overdose, has a GCS of 6 and her blood pressure is 90/46mmHg. A 12-lead ECG is highly likely to show:</p> <p>1. Atrial fibrillation. 2. Sinus bradycardia with a prolonged QRS complex. 3. Sinus tachycardia with a prolonged QRS complex. 4. Complete heart block.</p>	3
16	<p>In extrinsic compression of the mid-trachea, which of the following statements best describes the reason for administering heliox in this patient?</p> <p>1. It decreases the density of the gas mixture. 2. It decreases the viscosity of the gas mixture. 3. It decreases the Reynold's number. 4. It converts turbulent flow into laminar flow.</p>	1
17	<p>Following is the most suitably sized LMA for 16 kg child?</p> <p>1. Size 1½.. 2. Size 2. 3.Size 2½. 4.Size 3</p>	2
18	<p>A 4-week baby with a history of projectile vomiting for the last few days has been diagnosed with pyloric stenosis. Which one of the following parameters is most likely to suggest severe volume depletion?</p> <p>1. Urine output of 0.5ml/hour. 2. Serum sodium 129mmol/L. 3 Metabolic alkalosis with alkaline urine. 4. Metabolic alkalosis with acidic urine.</p>	4

25	Which of the following peripheral nerve blocks is MOST appropriate for rotator cuff repair? 1. Axillary 2. Cervical plexus 3. Infraclavicular 4. Interscalene	4
26	Which of the following BEST characterizes the syndrome of inappropriate antidiuretic hormone (SIADH) secretion? 1. High serum osmolality 2. Hyponatremia 3. Low urine osmolality 4. High urine sodium	4
27	Which of the following is MOST likely to be the first manifestation of classic malignant hyperthermia during a general anesthetic? 1. Tachycardia 2. Hypotension 3. Hypokalemia 4. Hypocalcemia	1
28	Which of the following is MOST likely to be a useful landmark for placement of an infraclavicular block in a patient? 1. Sternocleidomastoid muscle 2. External jugular vein 3. Coracoid process 4. Ipsilateral nipple	3
29	Which of the following is MOST likely to cause a decrease in P50 (the Po ₂ at which hemoglobin is 50% saturated)? 1. Hypothermia 2. Acidosis 3. Isoflurane 4. Fentanyl	1
30	A patient develops vasospasm following aneurysmal subarachnoid hemorrhage and "triple-H" therapy is instituted. Which of the following is a component of this therapy? 1. Hypothermia 2. Hypovolemia 3. Hypertension 4. Hyperventilation	3