MIZORAM PUBLIC SERVICE COMMISSION

TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF GRADE-II OF MIZORAM HEALTH SERVICE (SPECIALIST SUB-CADRE) UNDER HEALTH & FAMILY WELFARE DEPARTMENT, GOVERNMENT OF MIZORAM. OCTOBER, 2022

PAPER - IV (TECHNICAL) ANAESTHESIOLOGY DEPARTMENT

Time Allowed: 3 hours Full Marks: 200

All questions carry equal marks of 2 each.

Attempt all questions.

- 1. The following is not disadvantage of NPPV
 - (a) Reduced need for sedation
 - (b) Claustrophobia
 - (c) Delay in intubation
 - (d) Possible upper extremity oedema, axillary vein thrombosis and tympanic membrane dysfunction
- 2. When NPPV is used inspiratory pressures greater than 20 cm H₂O should be avoided to prevent
 - (a) Barotrauma

(b) CO₂ retention

(c) Gastric distension

- (d) Hypoxia
- 3. The primary benefit of positive end-expiratory pressure (PEEP) during mechanical ventilation is
 - (a) Improved elimination of CO2
 - (b) Improved venous return and cardiac output
 - (c) Prevention and reversal of alveolar collapse (atelectasis)
 - (d) Reduction in peak inspiratory pressure
- **4.** For pressure-preset ventilation (also known as "pressure-control ventilation"), the independent variable and dependent variable, respectively, are
 - (a) Tidal volume and FIO2

(b) Tidal volume and frequency

(c) SpO2 and airway pressure

(d) Airway pressure and tidal volume

- **5.** Advantage of SIMV is
 - (a) Less interference with normal cardiac-vascular function
 - (b) Increased work of breathing
 - (c) Rests muscles of respiration completely
 - (d) VT decreases with or increases with lung resistance/compliance
- **6.** Which is true of pressure support ventilation (PSV)?
 - (a) Delivers either volume cycled or time cycled breaths at a preset mandatory rate
 - (b) Set amount of pressure that is applied augments each patient-triggered breath.
 - (c) Delivers unassisted ventilator breaths at a pre-set rate
 - (d) This mode allows patients to contribute to and determine a portion of their ventilatory requirement

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7.		Primary goals of ventilatory support are all except				
		Adequate oxygenation/ventilation				
	` /	Reduce work of breathing				
		Asynchrony between patient and ventilator				
	` '	Avoidance of high end-inspiration alveolar pr				
8.		ntial adverse effect from high inspiratory pressu				
	` '	Barotrauma		Hypertension		
	` /	Hypercapnia	` '	Respiratory acidosis		
9.		ch mode of ventilation locks out patient's effor	t to b	reath		
	. ,	Controlled Mandatory Ventilation				
	` '	Synchronous Intermittent Mandatory Ventilati	ion			
	` /	Assist Control Mode				
4.0	()	Pressure Control Mode	.1			
10.		node of ventilation which allows the patient to b and depth between the ventilator breaths is	reath	e spontaneously at his or her own respiratory		
		Controlled Mandatory Ventilation				
		Synchronous Intermittent Mandatory Ventilati	ion			
		Assist Control Mode	1011			
	()	Pressure Control Mode				
11.	` '	ch are the Ventilator Parameters adjusted to ma	intaiı	the optimum oxygenation?		
		FiO2 and PEEP		Tidal Volume and Respiratory Rate		
	` '	Tidal Volume and PEEP	` ′	FiO2 and Tidal volume		
12	` '		` /			
14.	One of the following modes of ventilation reduces the work of breathing by overcoming the resistance created by ventilator tubing					
		Controlled Mandatory Ventilation				
	(b)	Synchronous Intermittent Mandatory Ventilati	ion			
	(c)	Assist Control Mode				
	(d)	Pressure Support Mode				
13.	CPA]	P and BiPAP modes are usually used				
	(a)	In conjunction with sedation	(b)	to delay intubation		
	(c)	In unconscious patients	(d)	In uncooperative patients		
14.	. Which one of the following modes of ventilation is triggered by time, limited by pressure and inspiratory effort?					
	(a)	Controlled Mandatory Ventilation				
	` ′	Synchronous Intermittent Mandatory Ventilati	ion			
		Assist Control Mode				
	(d)	Pressure Control Mode				
15.	Whic	th of the following conditions require a higher P	EEP	to be applied in recruiting collapsed alveoli?		
		Asthma	(b)	Acute Respiratory Distress Syndrome		
	\ /	Bronchiectasis	(d)	Emphysema		
16.	. /	of the following is a risk of keeping high PEEP	` '			
٠.		Hypotension	(b)	Hypertension		
		Hyperthermia	` /	Hypothermia		

17.	Venti	ilator associated pneumonia develops at least a	fter h	ow many hours of endotracheal intubation?
		24 to 48 hours		36 to 72 hours
	()	48 hours	` /	72 hours
18.	` /	otracheal intubation is a major risk factor for ven	` /	
		ons with the exception of		1
	(a)	Endotracheal intubation breaches airway defe	ences	
	(b)	impairs cough and muco-ciliary clearance, a		<u> </u>
		secretions that pool above the inflated endotr		
	(c)	Bacteria form a biofilm on and within the ende and host defences	otrac.	heal tube that protects them from antibiotics
	(d)	Due to immuno-compromised condition in a v	ventil	ated patient
19.	One	of the preventive measures of ventilator-associ	iated	pneumonia is
	(a)	Head end elevation by 30-45 degrees	(b)	Open suctioning system
	(c)	Always keep ventilated patients deeply sedated	l (d)	Gastric over distension need not be avoided
20.	Then	main adverse effect of sedation with dexmedeto	omidi	ine in a mechanically ventilated patient is
	(a)	Bradycardia	(b)	Hypotension
	(c)	Respiratory depression	(d)	Long duration of action
21.	-	tients who are critically ill, the most common pl	harm	acologic agents for pain and first-line agents
		on-neuropathic pain are		
	` '	NSAIDs	` /	Sedatives
	` '	Opioids	()	Muscle relaxants
22.		ch statement is false regarding early enteral nutr	ient a	administration in a critically ill patient
		Preserving gastrointestinal integrity and		
		 Barrier function and maintaining intestinal immunologic defences Decreasing infectious outcomes in critically ill patients 		
	` '	•	patie	ents
22	(d) Rapid recovery in a coma patient			
23.	 Inadequate nutrition in a critically intubated patient has been associated with (a) Improved wound healing 			
	` /	Neuromuscular improvement		
		Prolonged dependence on ventilators and pro	otract	red length of stay
		Decreased morbidity and mortality.	, irac	ed length of stay
24.		ning from mechanical ventilation is expedited b	V	
		Daily spontaneous breathing trials	J	
		Synchronized intermittent mandatory ventilati	ion (S	SIMV)
	` '	Administration of bronchodilating medication	`	'
		Daily bronchoscopy		
25.	Noci	ceptive pain can be divided into two categorie	s	
	(a)	Somatic pain and visceral pain	(b)	Somatic and neuropathic
	(c)	Inflammatory and radicular	(d)	Acute and chronic
26.	At w	hat time frame following the postsurgical period	l does	s persistent postsurgical pain become defined
		ing "chronic pain"?		
	` '	1 to 2 weeks	` ′	3 to 4 weeks
	(c)	1 to 2 months	(d)	6 to 12 months

27.	Nons	steroidal anti-inflammatory drugs (NSAIDs) a	re of	ten used as part of "multimodal" analgesic		
		therapy, some of the potential advantages include all of the following, except				
	(a)	(a) Decreases opioid requirements				
	(b)	Can decrease postoperative pain intensity				
	(c)	Indirect effect of decreasing opioid-related si	de ef	fects		
	(d)	Can improve wound healing				
28.	Туре	(s) of symptomatic pain conditions that best de	scrib	es "chronic" pain often includes		
	(a)	Neuropathic pain alone	(b)	Nociceptive pain alone		
	(c)	Neuropathic or nociceptive pain	(d)	Somatic or visceral pain		
29.	Whic	ch of the following is false with use of opioid fo	r chr	onic pain		
	(a)	Opioids not first-line or routine therapy for ch	roni	e pain		
	(b)	Avoid concurrent benzodiazepines and opioid	ds wh	enever possible		
	(c)	Not necessary to discuss expected benefits an	nd ris	ks with patients		
	(d)	Prescribe lowest effective dose				
30.	Chro	nic pain indications for insertion of a spinal cor	d stii	mulator include all of the following, except		
	(a)	Phantom pain	(b)	Complex regional pain syndrome		
	(c)	Chronic visceral pelvic pain	(d)	Compartment syndrome pain		
31.	Majo	or excitatory neurotransmitters responsible for p	oain r	modulation include all the following, except		
	(a)	Substance P	(b)	Glutamate		
	(c)	Somatostatin	(d)	Aspartate		
32.	All th	ne following are inhibitory neurotransmitters in	the p	pain pathway, except		
	(a)	Norepinephrine	(b)	Adenosine		
	(c)	Serotonin	(d)	Calcitonin gene-related peptide		
33.	All a	re true of Visual analogue scale (VAS) except				
	(a)	Correlate highly with pain measured on verba	l and	numerical rating scales		
	(b)	Is minimally intrusive				
	(c)	Assumes that pain is a multidimensional expen	rienc	e		
	(d)	Measures the intensity of pain				
34.	In all	chronic pain there are problems in the nervou	s sysi	tem except		
	(a)	Complex regional pain syndrome (CRPS)	(b)	Fibromyalgia		
	(c)	Migraine	(d)	Rheumatoid arthritis		
35.	The b	penzodiazepine which is used to treat various				
	neuropathic pain syndromes is					
	(a)	Diazepam	(b)	Clonazepam		
	(c)	Flunazepam	(d)	Lorazepam		
36.	Alloc	lynia is				
	(a)	Neuropathic pain caused by stimuli that are us	sually	not painful		
	(b)	The 'burning' sensation of causalgia				
	(c)	Red flare with nerve damage				
	(d)	Due to reflex sympathetic dystrophy				

37.	Whic	h of the following conditions is more likely to	be as	sociated with neuropathic pain?		
	(a)	Traumatic nerve injury	(b)	Stroke		
	(c)	Syringomyelia	(d)	Multiple sclerosis		
38.	Most	commonly missed nerve with interscalene app	roac	h to brachial plexus		
	(a)	Ulnar	(b)	Median		
	(c)	Musculocutaneous	(d)	Radial		
39.	Rega	rding Epidural Abscess - which is wrong-				
	(a) Diagnosis is dependent on triad of back pain, fever, and paralysis					
	(b)	Occurs at a rate of 1:1000-3000 (OR 1:2000) -1:5	5000)		
	(c)	Worse outcomes if advanced age				
	(d)	Usually gram positive cocci				
40.	Rega	rding monitoring for paediatric inhalation induc	tion			
	(a)	Temperature monitoring is essential during ind	luctio	on.		
	(b)	It is unwise to upset anxious children by placi	ng a	blood pressure cuff before induction.		
	(c)	A baseline ECG must be obtained before indu	ction	, especially in anxious children		
	(d)	It is unnecessary to obtain pre-induction bloo	d pre	ssures in neonates, often difficult to obtain		
		due to motion.				
41.		vear-old, 20-kg girl develops pulseless ventric				
	with halothane, nitrous oxide, and oxygen for a tonsillectomy. The anaesthesiologist intubates to shill administers 100% oxygen, and starts short compressions. When the defibrilleter quickly arrived					
	child, administers 100% oxygen, and starts chest compressions. When the defibrillator quickly arrive in the OT the defibrillator should be charged to what energy level for the initial shock?					
		20 joules		40 joules		
	(c)	60 joules	(d)	80 joules		
42.	What	is the first sign of inhalation anaesthetic induct	ion i	n a child?		
	(a)	Disappearance of eyelash reflex	(b)	Shallow, rapid breathing		
	(c)	Appearance of nystagmus	(d)	The patient does not react to verbal stimuli		
43.	Whic	th of the following is the most common reason	for tl	ne cancellation of paediatric procedures?		
		Asthma Exacerbation		Upper Respiratory Infections		
	(c)	Non-compliance with NPO requirements		Instability due to illness		
44.	A.7 y	rear old child must not eat solid food for how i	nany	hours prior to procedure?		
	(a)	6 hours	(b)	8 hours		
	(c)	3 hours	(d)	4 hours		
45.	What	type of breathing circuit would you choose fo	r a cl	nild weighing less than 10 kg?		
	(a)	Small semi-closed Circuit	(b)	Mapleson A		
	(c)	Standard adult semi closed system	(d)	Jackson-Rees Circuit		
46.	What	would be an appropriate sized uncuffed ETT	for a	3 year old child weighing 18 kgs?		
		4.5	(b)			
	(c)	3.5	(d)	3Bottom of Form		
47.	What	is an appropriate hourly maintenance fluid rat	e for	a child weighing 18 kg?		
		68 ml/hour		58 ml/hour		
	(c)	70 ml/hour	(d)	45 ml/hour		

48.	The r	najority of paediatric cardiac arrests occur du	ıring v	which phase?				
	(a)	Induction	(b)	Maintenance				
	(c)	Emergence	(d)	Rates are equal during all 3 phases				
49.	What	t is the most common cause of respiratory arr	est in	paediatric patients?				
	(a)	Airway Obstruction	(b)	Difficult intubation				
	(c)	Laryngospasm	(d)	Bronchospasm				
50.	Whic	ch of the following is not a risk factor associat	ted wi	th cardiac arrests in the paediatric patient?				
	(a)	Emergency Surgery	(b)	ASA 3-5				
	(c)	Congenital Airway Deformities	(d)	Children 1-4 years old				
51.	A chi	ld with a recent URI undergoing anaesthesia w	ould	be at an increased risk for all of the following				
	excep	ot:						
	(a)	Laryngospasm	(b)	Gastro-oesophageal reflux				
	(c)	Atelectasis	(d)	Bronchospasm				
52.	When	n monitoring the paediatric patient, where sho	ould t	he precordial stethoscope be placed?				
	(a)	Left sternal border 2nd or 3rd intercostal sp	ace					
	(b)	Right sterna border 2nd or 3rd intercostal sp	pace					
	(c)	Left midclavicular line 5th intercostal space						
	(d)	Depends upon what you are trying to monitor	or					
53.	For a	normal inhalational induction your N2O show	ıld be	at and your O2 should be at				
	respe	ectively to start out with						
		70%, 30%		50%, 50%				
	(c)	40%, 60%	(d)	0 %, 100 %				
54.	Botto	om of FormWhich of the following is incorrec	t rega	rding recovery position?				
	(a)	(a) Place nearest arm at right angle						
	(b)	Put the back of other hand straight on side of the victim						
	(c)	Bend the far knee, grasp the far leg and roll	them	onto their side				
	(d)	Open airway						
55.	The I	MAC for all anaesthetic agents are highest at	what	age?				
	(a)	6-12 months	(b)	4-6 years				
	(c)	1-4 years	(d)	0-6 months				
56.	Which of the following inhalational anaesthetic agents may cause bradycardia, vasodilation and							
		eardial depression in infants?						
		Desflurane	(b)	Isoflurane				
	(c)	Sevoflurane	(d)	Opioids				
57.	Whic	Which of the following children is the best candidate for a deep extubation?						
	(a)	An 18 month old child who just had a minor procedure, no past HX and spontaneous ventilation for whole case.						
	(b)	A 9 year old healthy child with asthma (no attacks in one year and no wheezes) having a minor elective procedure, spontaneous ventilation maintained throughout procedure						
	(c)	An 5 year old healthy child with no medical history, needed paralysis during procedure but has now been fully reversed.						
	(d)	d) A 7 year old child who came for emergency appendectomy						

58.	Whic	ch of the following is not helpful in preventing la	aryng	gospasm?	
	(a) Suction secretions immediately after extubation				
	(b)	Extubate deep			
	(c)	Extubate totally awake			
	(d)	Immediately after extubation, stretch the laryr	ıx		
59.	Wha	t is the most important componenent of physica	al exa	amination for down syndrome patient?	
	(a)	Airway examination and neck stability			
	(b)	Assessing degree of mental retardation			
	(c)	Obtaining history from parents regarding any	heart	conditions	
	(d)	Assessing for reflux and signs of URI			
60.	Neor	nates and infants have less effective ventilation	due 1	to all of the following except	
	(a)	Larger tongue and head			
	(b)	Weak intercostals and diaphragmatic muscula	ature		
	(c)	More pliable and horizontal ribs			
	(d)	Protuberant abdomen			
61.		t side effect is commonly associated with fentar sthesia?	nyl th	nat we are concerned about during paediatric	
	(a)	Myocardial depression	(b)	Chest Wall Rigidity	
	(c)	Renal Toxicity	(d)	Cytochrome P450 induction	
62.	Wha	t is the incidence of Malignant Hyperthermia in	chile	dren?	
		1: 50,000		1: 100,000	
	(c)	1: 15,000	(d)	1: 250,000	
63.		gnant Hyperthermia is a severe reaction which arily to	resu	lts in ryanodine receptor activation leading	
	(a)	Intracellular Hyperkalaemia	(b)	Intracellular Hypernatremia	
		Intracellular Hypercalcemia		Intracellular Hyperglycaemia	
64.	-	tient with a history of uncontrolled hyperten oscopic cholecystectomy, will be classified as		, diabetes, and angina who is to undergo a	
	_	ASA II	(b)	ASA III	
	(c)	ASA IV	(d)	ASA V	
65.		classification for risk stratification is validated the following, except	for p	predicting preoperative morbidity associated	
	(a)	General or regional anaesthesia	(b)	Conscious sedation	
	(c)	Monitored anaesthesia care	(d)	Surgical procedure	
66.		year-old male, who is diabetic for the last 20 ye following is not a sign of autonomic diabetic			
		History of recurrent diarrhoea		History of postural hypotension	
	(c)	History of recurrent constipation	(d)	History of urinary retention	
67.	Iatro	genic contributions to maternal supine hypoten	sion	syndrome can be minimized by	
		Left hip elevation		Left-uterine displacement	
	(c)	Regional anaesthesia	` ′	General anaesthesia	

68.	58. The most significant change in maternal lung volume that occurs in the third trimester of pregn includes			at occurs in the third trimester of pregnancy				
	(a)	Decrease in vital capacity	(b)	Increase in residual volume				
	(c)	Decrease in functional residual capacity (FRC)	(d)	Decrease in closing capacity (CC)				
69. Which of the following is not associated with oxytocin administration?								
	(a)	Myocardial ischemia	(b)	Respiratory depression				
	(c)	Hypotension	(d)	Tachycardia				
70. During maintenance of a general inhaled anaesthetic for an urgent non-obstetric surger expect this difference in the pregnant patient versus a nonpregnant patient								
	(a)	Slower emergence from anaesthesia	(b)	Minimal changes in depth of anaesthesia				
	(c)	Faster induction of anaesthesia	(d)	There is to be no difference				
71.	When	n providing general anaesthesia during pregnan	cy, n	ninimum alveolar concentration (MAC) is				
	(a)	Increased	(b)	Decreased				
	(c)	Unchanged	(d)	Unclear				
72.	Durii	ng pregnancy, hepatic changes contribute to						
	(a)	Decreased albumin levels contributing to high	er fre	e blood levels of highly protein-bound drugs				
	(b)	Decreased liver function tests due to decrease	ed bl	ood flow				
	(c)	(c) Decreased concentration levels of coagulation factors leading to easy bruisability						
	(d)	Decreased activity of plasma cholinesterase resuccinylcholine	sultin	g in significantly longer duration of action of				
73.	Whic	ch of the following intravenous induction agent	ts is t	he most suitable for day care surgery?				
	(a)	Morphine	(b)	Ketamine				
	(c)	Propofol	(d)	Diazepam				
74.	The s	urgeon is performing a right total knee arthropla surgical team is providing you with information cement (polymethylmethacrylate) to anchor the may occur is	that	within the next 15 minutes they plan to place				
	(a)	Hypotension	(b)	Increased work of breathing and hypercapnia				
	(c)	Cardiac arrhythmias	(d)	Decreased pulmonary shunt				
75.	Poter	ntial complications of use of a pneumatic tourni	iquet	include all of the following except				
	(a) Tourniquet pain that is relieved by performing a peripheral nerve block							
	(b)	A compression nerve injury						
	(c)	Development of arterial thromboembolism						
	(d)	Pulmonary embolism						
76.		rect statement regarding neuraxial anaesthesia Γ/PE) in orthopaedic surgical procedures is	and o	deep-vein thrombosis/pulmonary embolism				
	(a)	Neuraxial anaesthesia may reduce thromboem	iboli	c complications				
	(b)	Neuraxial anaesthesia may reduce blood loss						
	(c)	Neuraxial anaesthesia may decrease platelet r	eacti	vity				
	(d)	Neuraxial anaesthesia may increase activity of	of bot	th factor VIII and von Willebrand factor				

- 77. All of the following statements when positioning patients for spine surgery in the prone position are true, except
 - (a) The neck should be in neutral position (without hyperextension or hyperflexion)
 - (b) The eyes must be free of pressure and checked periodically
 - (c) The abdomen must always be supported (never permitted to hang freely)
 - (d) The arms are kept at less than 90 degrees of extension and flexion
- **78.** The most incorrect statement regarding postoperative vision loss (POVL) that may occur during prone positioning in spine surgery patients is
 - (a) Ischemic optic neuropathy accounts for the highest incidence of POVL
 - (b) Ischemic optic neuropathy is associated with decreased ocular perfusion pressure
 - (c) Prone positioning, greater than 1 L intraoperative blood loss, and surgery lasting greater than 6 hours represent the highest risk
 - (d) POVL due to central retinal artery occlusion (CRAO) tends to be bilateral
- 79. Increases in intraocular pressure (IOP) following succinylcholine administration for tracheal intubation can be minimized by all of the following, except
 - (a) â-Adrenergic blocker
 - (b) Nondepolarizing relaxant
 - (c) Detachment of extraocular muscles from the globe
 - (d) Lidocaine
- 80. The ocular effects of ketamine includes
 - (a) Pupillary constriction

- (b) Blepharospasm
- (c) Decrease in intraocular pressure
- (d) Myoclonus
- **81.** An air bubble is injected into the posterior chamber at the conclusion of retinal surgery (pneumatic retinopexy) to facilitate anatomically correct healing. The most appropriate anaesthetic management, before the air bubble is injected, is
 - (a) Increase depth of anaesthesia
- (b) Discontinue nitrous oxide (N2O)
- (c) Ensure adequate muscle relaxation
- (d) Hyperventilate the patient
- **82.** A 10-year-old girl with hoarseness presents for laser microsurgery to address laryngeal papillomas. She is otherwise healthy. The surgeon is requesting a general endotracheal anaesthetic (GETA). The gas mixture least likely to support combustion is
 - (a) Oxygen 35%, air 65%

- (b) Oxygen 30%, helium 70%
- (c) Oxygen 20%, nitrous oxide (N2O) 80%
- (d) Oxygen 30%, nitrogen (N2) 70%
- **83.** Appropriate anaesthetic management for ophthalmic surgery requires tight control of intraocular pressure (IOP) before, during, and after the procedure. The accurate effect of an anaesthetic drug on IOP is
 - (a) Decreased by glycopyrrolate
 - (b) Increased by hyperventilation
 - (c) Decreased by nitrous oxide
 - (d) Increased by nondepolarizing muscle relaxants
- **84.** A 64-year-old female is undergoing a left video-assisted thoracoscopy for a suspicious pulmonary nodule. Immediately after positioning the patient laterally, which of the following alarms indicate a malposition of the double-lumen tube (DLT)?
 - (a) High CO2 alarm

(b) Low O2 alarm

(c) Low tidal volume alarm

(d) Unable to drive bellows alarm

85.		In which of the following situations is applying continuous positive-airway pressure (CPAP) to the nondependent lung most ideal for improving oxygenation?					
	(a)	Bronchopleural fistula	(b)	Open lobectomy			
	(c)	Massive pulmonary haemorrhage	(d)	Sleeve resection			
86.		ch of the following statements is false regarding bitus position during spontaneous ventilation?	ng ve	entilation/perfusion relationship in a lateral			
	(a)	Ventilation/perfusion matching remains the sar	me				
	(b) Contraction of dependent hemi diaphragm is more efficient						
	(c) Dependent lung is on a more favourable part of the compliance curve						
	(d)	The lower lung receives less ventilation and n	nore j	perfusion than the upper lung			
87.	Treat	ment of a patient with mannitol can lead to all t	the fo	ollowing, except			
	(a)	Oliguria	(b)	Hypotension			
	(c)	Hypervolemia	(d)	Hypokalaemia			
88.		ient is undergoing craniotomy for subdural hema ring the intracranial pressure. All the following					
	(a)	Mannitol	(b)	Hyperventilation			
	(c)	Steroids	(d)	Furosemide			
89.	The	lesired level of PaCO2 in a neurosurgical patie	ent is				
	(a)	30 to 35 mm Hg	(b)	25 to 30 mm Hg			
	(c)	20 to 25 mm Hg	(d)	15 to 25 mm Hg			
90.	Intra	raoperative anaesthetic management of a patient undergoing cerebral aneurysm repair includes all,					
	-	except					
	(a) Maintenance of hypotension						
	(b) Mannitol for facilitating surgical exposure						
	` ′	Maintaining mild hypothermia					
		Patient remaining intubated for 24 hours poster					
91.	Preoperative assessment of patients with diabetes mellitus should include			as should include			
	` '	An assessment of functional status					
	()	24-Hour creatinine clearance					
	` ′	Pulmonary function testing Compatible of the surgical case if IIIh A la N	1 \(\O \) /	2			
0.0	` '	Cancellation of the surgical case if HbA1c >					
92.		erred inhalational anaesthetic agent in a patient		••			
	` '	Desflurane	` /	Ketamine			
02		Sevoflurane	(d)	Meperidine			
93.		nts with obstructive sleep apnoea (OSA) Are at increased risk of left-heart failure					
	` ′	Have the same perioperative complication ra	ta ne	nationts without OSA			
	(c)	May have an increased likelihood of difficult i					
	(d)	-					
	(d) Rarely require continuous positive airway pressure (CPAP) after bariatric surgery						

- **94.** You are taking care of a 45-year-old patient undergoing a left adrenalectomy for a pheochromocytoma. Intraoperative management includes
 - (a) Use of ketamine as an induction agent to counteract the effects of preoperative á-adrenergic blockade
 - (b) Long-acting antihypertensive agents should be available to treat hypertension
 - (c) Judicious fluid replacement as these patients are usually volume-overloaded
 - (d) Magnesium sulphate infusion to treat hypertension
- **95.** 48-year-old woman with temporomandibular joint dysfunction and limited mouth opening is scheduled for thyroidectomy for goitre. Due to concern for a difficult laryngoscopy, the anaesthesiologist elects to perform an awake oral fibreoptic intubation. To reliably blunt the afferent limb of the cough reflex, the anaesthesiologist should perform a bilateral block of the
 - (a) Internal and external branches of the superior laryngeal nerve
 - (b) Glossopharyngeal nerve and internal branch of the superior laryngeal nerve
 - (c) Glossopharyngeal nerve and external branch of the superior laryngeal nerve
 - (d) Superior laryngeal nerve and the recurrent laryngeal nerve
- **96.** Which statement concerning the adult failed airway is incorrect?
 - (a) Airways such as the laryngeal mask airway and oesophageal obturator airway are always useful in the event of a failed airway.
 - (b) Awake intubation may be done by the nasotracheal route.
 - (c) Care should be taken before intubation to assess the airway for ease of ventilation as well as intubation.
 - (d) Cricothyrotomy is the crucial rescue procedure when intubation and ventilation fail.
- 97. All are predictors of difficult intubation except
 - (a) Low Cormack and Lehane Scores from past history
 - (b) High Mallampati Score
 - (c) Subglottic stenosis
 - (d) Marfan's syndrome
- **98.** After rapid sequence induction of general anaesthesia, a patient is unable to be intubated. Subsequent attempts at ventilation by face mask and a supraglottic airway device are also unsuccessful. One of the following statements regarding transtracheal jet ventilation and surgical cricothyrotomy in this situation is most correct
 - (a) Transtracheal jet ventilation does not require a patent natural airway
 - (b) Ventilation through a surgical cricothyrotomy allows both inhalation and exhalation to occur
 - (c) The development of laryngospasm during ventilation through a cricothyrotomy would rapidly cause pulmonary over inflation and barotrauma
 - (d) Transtracheal jet ventilation can be continued for a longer period of time than can ventilation via a cricothyrotomy
- **99.** Use of a laryngeal mask airway would be most appropriate for airway management in the following patient
 - (a) An obese patient with acute appendicitis who, after rapid sequence induction, cannot be intubated
 - (b) An elderly patient with restrictive lung disease scheduled for inguinal hernia repair
 - (c) An obese male patient with a hiatal hernia and GERD scheduled for umbilical hernia repair
 - (d) A full-term parturient brought to the OR for emergent caesarean section because of foetal bradycardia

- 100. One of the following is a primary risk factor for difficult mask ventilation
 - (a) Limited mouth opening
 - (b) Thyromental distance less than 3 fingerbreadths
 - (c) High arched palate
 - (d) Inability to bring mandibular incisors anterior to the maxillary incisors

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