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## **BRAINWARE UNIVERSITY**

**Term End Examination 2024-2025** Programme - B.Sc.(OTT)-2021/B.Sc.(OTT)-2022/B.Sc.(OTT)-2023 Course Name - Basic Techniques of Anesthesia Course Code - BOTTC403 (Semester IV)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Identify that all of the following are characteristics of an ideal general anesthetic except:
  - a) they should require uncomplicated equipment to administer
  - c) they should rapidly metabolize to avoid cumulative toxicity
- (ii) Write the dose of Thiopentone in G.A.
  - a) 5mg/kg
  - c) 0.5mg/kg

- b) 2mg/kg
- d) 7mg/kg
- (iii) Write if a patient has taken steroid for man than 3 weeks in last 1 year he/she must receive intraoperative supplementation of:
  - a) Hydrocortisone

b) NSAID's

c) Neostigmine

- d) ALL
- (iv) Choose among the following the correct maximum safe dose of bupivacaine (plain).
  - a) 1mg/kg
  - c) 2mg/kg

- b) 5mg/kg
- d) 7mg/kg

- (v) Choose the odd one out.
  - a) Succinylcholine

b) Rocuronium

c) Pancuronium

- d) Aspirin
- (vi) Name the type of anesthesia machine which is used for patients undergoing major surgery.
  - a) Portable anesthesia machine
- b) Stationary anesthesia machine

They should have a wide range of safety

uncomplicated induction and emergence

d) They should provide rapid and

c) Both A and B

- d) Only A
- (vii) Choose which type of anesthesia is epidural anesthesia.
  - a) Regional anesthesia

b) General anesthesia

c) Local anesthesia

d) None of these

(viii)	Select the type of defibrillator that requires th	e use of paddles to deliver a shock.	
	a) Automated external defibrillator (AED) c) Manual defibrillator Choose the most appropriate monitoring para	<ul> <li>b) Implantable cardioverter -defibrillator</li> <li>d) Wearable cardioverter -defibrillator (Vimeter during general anesthesia:</li> </ul>	
	a) Blood pressure	b) Oxygen saturation	
	c) Body temperature	d) Heart rate	
(x)	Infer the potential risks associated with the us	e of inhalational anesthetics:	
	a) Respiratory depression and airway	b) Nausea and vomiting	
	obstruction	Nausea and vomiting	
(xi)	c) Bradycardia and hypotension Infer the potential side effect associated with anesthesia:	d) Thrombosis and embolism the use of opioids as part of general	
	a) Respiratory depression	b) Hypertension	
	c) Tachycardia	d) Bronchodilation	
(xii)	Select the intravenous agent that is often used the emergency department:		
	a) Propofol	b) Midazolam	
	c) Ketamine	d) Fentanyl	
(xiii)	Choose the inhalational agent that has the mo	ost potent respiratory depressant effects:	
	a) Nitrous oxide	b) Sevoflurane	
	c) Desflurane	d) Isoflurane	
(xiv)	Choose the inhalational agent that is associate anesthesia:	ed with the most rapid emergence from	
	a) Nitrous oxide	b) Sevoflurane	
	c) Desflurane	d) Isoflurane	
(xv)	Choose the mechanism of action of local anes	thetic agents:	
	a) Stimulation of nerve impulses c) Stimulation of muscle contraction	b) Inhibition of nerve impulses d) Inhibition of muscle contraction	
	Gro	рир-В	
	(Short Answer	Type Questions) 3	x 5=15
<ol> <li>Select the appropriate anesthesia technique for a patient undergoing abdominal surgery.</li> <li>Describe the function of the reservoir bag in an oxygen mask.</li> <li>Describe the general anaesthesia protocol in key steps? write down the pre-operative fasting guidelines.</li> </ol>			(3) (3) (3)
	escribe the various techniques used in General	anesthesia.	(3)
6. Es	5. Estimate the staffing and equipment needs for safe and effective patient positioning during spinal and epidural anesthesia procedures.write down the details on propofol.		
_		OR	(2)
	timate the staffing and equipment needs for s nesthesia in different healthcare settings.	are and effective administration of general	(3)
	Gro	oup-C	
			x 6=30
	Explain why Spinal Anesthesia is considered as Anesthesia of choice for lower limb surgeries over Epidural anesthesia and write the details on spinal anaesthetic drug.		
8.	Explain the different types of intravenous agen clinical practice.	ts, and their respective indications for use in	
10.	Illustrate different types of regional anesthesia Explain the process of oral intubation and how PWrite the function and insertion technique of	will you confirm the position of the ET-Tube	(5)

11. Explain the stages of GA and write on reversal agent .	(5)
12. Explain defibrillator and classify it. Write the patient position , technique that we used	
Shock . Draw a algorithm on non-shockable rhythm .	
OR	
Explain advanced cardiac life support and ventricular fibrilation.	(5)
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