



## **BRAINWARE UNIVERSITY**

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

Time: 2:30 Hours Full Marks: 60 [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** 1 x 15=15 (Multiple Choice Type Question) Choose the correct alternative from the following: (i) Read the question and select the appropriate answer. The oxygen flush system provides a higher flow of oxygen of \_\_\_\_\_L/min when the patient's need for oxygen is greater than the amount the breathing circuit can provide. b) 35-75 a) 25-50 d) 65-105 c) 55-95 (ii) Name the material by which vaporizers are made of b) cast iron a) steel d) brass c) copper (iii) Name the fastest acting inhalational agent b) enflurane a) Sevoflurane d) Desflurane c) Both 1,2 (iv) Select in which of the following stage general anesthesia surgery is done b) Stage II a) Stage I d) Stage III plane 3 c) Stage III plane 2 (v) Write 1 ml of liquid oxygen gives b) 1040 ml of gas a) 940 ml of gas d) 840 ml of gas c) 480 ml of gas (vi) Select the narrowest portion of the neonate's airway an another (day the contraction of the b) Tracheans a) Glottis d) Cricoid c) Pharynx (vii) Select the most common type of regional anesthesia used for lower limb surgeries b) Spinal anesthesia a) Epidural anesthesia d) Intravenous regional anesthesia c) Peripheral nerve block (viii) Name the component of an anesthesia machine which regulates the flow of anesthetic gases

a) Vaporizer

b) Absorber

c) Flow meter	d) Ventilator	
c) Flow meter (ix) write the onset time for propofol as an induction	on agent in general anesthesia	
a) 5-10 minutes	b) 30-60 minutes	
c) 2-5 minutes	d) 10-15minutes	
( ) News the three components of general anesthesia		
a) Analgesia, amnesia, and unconsciousness	b) Analgesia, unconsciousitess, and mose	
<ul> <li>c) Amnesia, unconsciousness, and muscle relaxation</li> </ul>	d) Analgesia, unconsciousness, and ventil support	ation
(xi) Identify the correct hand placement for chest of	compressions in adult basic life support.	
a) Over the lower half of the sternum	b) Over the upper half of the sterrain d) Over the right lower ribcage	
(xii) Choose the device used for direct laryngoscop	y during intubation.	
a) Laryngoscope	b) Ventilator	
c) Endotracheal tube d) Oxygen mask (xiii) Choose the device used to confirm proper placement of the endotracheal tube during		
(xiii) Choose the device used to confirm proper place intubation.		
a) Pulse oximeter	<ul><li>b) Blood pressure cuff</li><li>d) Electrocardiogram (ECG)</li></ul>	
c) Capnograph	monly used for enidural anesthesia:	
(xiv) Choose the local anesthetic agent that is comm	h) Lide coins	
a) Bupivacaine	<ul><li>b) Lidocaine</li><li>d) Ropivacaine</li></ul>	
<ul><li>c) Procaine</li><li>(xv) Choose among the following in which "Bobbir</li></ul>	•	
	b) LMA	
a) ET Tube	d) Anesthesia machine	
c) Ventilator		
Group-B		
(Short Answer	Type Questions)	3 x 5=15
2. Describe the safety features of Anesthesia machine.		(3)
2. Explain his index system of various gases used in UI.		(3)
4. Write a note on applications of Defibrillator? Draw a neat and clean diagram of it.		(3) (3)
Litterance between crystalloid and colloid IV TIUIQS		
6. "Estimate the frequency of vital signs monitoring needed for patients with different medical (3) conditions or based on the severity of their illness."		
	OK	(2)
"Estimate the potential risks and consequences	of misidentifying a patient, such as	(3)
medication errors or wrong site surgery."		
Gr	oup-C	
	Type Questions)	5 x 6=30
7. Write a detailed description of the role of che-	st compressions in basic life support, and	(5)
8. Distinguish between crystalloid and colloid so	lutions. Give an example of each type of IV	(5)
fluid.  9. Describe the differences between acute and c	hronic post-operative pain.	(5)
10. Classify different types of muscle relaxants, and what are their indications for use		(5)
11. Measure the IV anaesthetic agent dosage of a obese patient weighing 85kg.		(5)
12. "Write the potential complications and side end managed in the recovery room"	ffects of anesthesia. How are these monito	ored (5)

Justify how Inhalational agents are dependent on MAC.

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(5)