



## **BRAINWARE UNIVERSITY**

## **Term End Examination 2023-2024** Programme - B.Sc.(OTT)-2021 Course Name - Specialized Surgery and Anesthesia **Course Code - BOTTC601** (Semester VI)

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

	(Matable Choice)	ype question,
1.	Choose the correct alternative from the following	g:
(i)	Select the recommended angle of insertion for	radial artery cannulation
(ii)	a) 30-45 degrees c) 90 degrees nobatequal fide to	b) 60-90 degrees d) 120 degrees
	<ul><li>a) Pressure in the peripheral veins</li><li>c) Pressure in the superior vena cava near the right atrium</li></ul>	b) Pressure in the pulmonary arteries d) Pressure in the arteries supplying the heart
(iii)	Select the normal range for end-tidal carbon did	oxide (EtCO2) in an adult at sea level
(iv)	a) 35-45 mmHg c) 45-55 mmHg Select the main function of a transducer in an e	b) 25-35 mmHg d) 15-25 mmHg chocardiography machine
	a) To transmit sound waves into the body	b) To receive and convert returning sound waves into electrical signals
(v)	c) To amplify the electrical signals Judge the common complication associated wit neurosurgery	d) To display the images on the monitor h the prone position during
	<ul><li>a) Hypotension</li><li>c) Ocular compression neuropathy</li><li>Express the statements regarding the knee-ches</li></ul>	b) Venous air embolism d) Ventilator-associated pneumonia t position is correct
	a) The patient is positioned on their knees and chest with the hips flexed	
	c) It is contraindicated in patients with cardiovascular diseases	d) The head is elevated on the heart level
vii)	Explain the uncommon complication associated surgery	with the prone position in spine and the state of the sta
	a) Neurological deficit	b) Respiratory compromise

(viii)	<ul> <li>c) Peripheral nerve injury</li> <li>Select the uncommon technique for awake intub</li> </ul>	d) Venous thromboembolism pation Fiberoptic bronchoscopy			
(ix)	<ul> <li>a) Fiberoptic bronchoscopy</li> <li>c) Blind nasal intubation</li> <li>Explain the adjunct may be used to facilitate awa airway distortion</li> </ul>	b) Video laryngoscopy d) Rapid sequence intubation ake intubation in patients with severe			
	<ul><li>a) Magill forceps</li><li>c) Laryngeal mask airway</li><li>Select the purpose of intraoperative hypotherm</li></ul>	b) Stylet d) Bougie a during aneurysm surgery			
	a) To reduce blood loss	b) To decrease cerebral metabolism and protect against ischemic injury	d		
(xi)	c) To speed up the recovery process Choose the type of camera is commonly used fo neurosurgery	d) To reduce the risk of infection			
	a) DSLR camera     c) Smartphone camera     Discover the common intraoperative complication	b) Polaroid camera d) Endoscope camera on associated with laparoscopic surgery			
	a) Hypothermia c) Hyperkalemia Write the technique involves placing the blood p	b) Hypotension d) Hypercarbia			
	<ul><li>a) Auscultatory method</li><li>c) Oscillometric method</li><li>Discover the potential complication of inadequal</li></ul>	b) Auscultatory method d) Invasive method te perioperative glycemic control			
	a) Hypernatremia c) Surgical site infection Explain the Arthroscopy is primarily used for	b) Hypokalemia d) Hypertension			
	a) Joint replacement     c) Joint repair and diagnosis	b) Joint fusion d) Joint amputation			
	Grou	p-B			
(Short Answer Type Questions)					
<ol> <li>Define the cell saver technique, and how does it work</li> <li>Explain respiratory monitor</li> <li>Examine the intraoperative monitoring contribute to the safety and efficacy of aneurysm</li> </ol>			(3)		
surgery					
<ul><li>5. Discover the postoperative care requirements following thyroid surgery</li><li>6. Evaluate the specific challenges posed by conditions such as subdiaphragmatic hernia and foreign body ingestion in pediatric patients</li></ul>			(3) (3)		
_	OR				
	onclude the anesthetic and surgical approaches of cocedures in pediatric patients	liffer for major abdominal and thoracic	(3)		
	Grou	p-C			
		pe Questions)	5 x 6=30		
8. 3 9. 1 10. 3 11. 1	Describe the steps involved in performing a pulm Select the procedure of arterial blood gas (ABG) and advantages of Femor lustify the Functions of a Transesophageal Echoc Estimate the the anesthetic requirements during donor and recipient	onary function test.  analysis performation  al Artery/Venous Cannulation  ardiography Machine	(5) (5) (5) (5) (5)		

Write the Management of Massive Obstetrical Hemorrhage OR Design the surgical management integrate with other aspects of burn care	