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BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Sc.(CCT)-2021/B.Sc.(CCT)-2022 Course Name - Procedural Skills for Critical Care Technology Course Code - BCCTC602 (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

- Choose the correct alternative from the following:
- (i) Select Full form of BLS.
 - a) Basic Life Style
 - c) Basic Life Support
- (ii) Define gastric lavage
 - a) A procedure involving washing out the stomach to remove ingested toxins
 - c) A surgical procedure to repair stomach ulcers
- b) Brain Like structure
- d) Benign lung Spot
- b) A method of administering medication directly into the stomach
- A diagnostic test for stomach cancer
- (iii) Describe a potential complication of gastric lavage
 - a) Perforation of the stomach lining
 - c) Normalization of electrolyte levels
- b) Increased absorption of toxins
- d) Improvement of respiratory function
- (iv) Predict a common side effect of opioid analgesics.
 - a) Constipation
 - c) Increased respiratory rate
- b) Hypertension
 - d) Reduced sedation
- (v) Select a benefit of using non-opioid analgesics
 - a) High risk of addiction
 - c) Reduced nausea and vomiting
- (vi) Define plasmapheresis
 - a) Removal of excess iron from the bloodstream
 - c) Transfusion of packed red blood cells to increase oxygen delivery
- b) Respiratory depression
- d) Slow onset of action
- b) Separation of blood cells from plasma, with plasma being returned to the patient
- Infusion of concentrated clotting factors
- (vii) Select a potential complication of exchange transfusion in neonates
 - a) Increased risk of blood clotting
 - c) Allergic reaction to donor blood
- b) Hypovolemia
- d) Elevated platelet count
- (viii) Describe the mechanism of injury in a blunt trauma

	a) Penetrating object pierces the skin	b) Direct impact to the body from a sha object	arp
(ix)	c) Forceful collision with a blunt object d) Exposure to extreme temperatures Select a common environmental injury in extreme cold conditions		
	a) Heat stroke	b) Frostbite	
	c) Sunburn	d) Dehydration	
(x)	Write a common environmental injury prevent	tion strategy during outdoor activities	
	a) Wear heavy clothing in hot weather	b) Stay hydrated	
/··:\	c) Avoid using sunscreen	d) Ignore weather forecasts	
(XI)	Choose a factor that influences the severity of		
	a) Clothing color	b) Time of day	
(vii)	c) Speed of impact	d) Recent meal	
(XII)	Identify a common type of surgical wound clas		
	a) Superficial wound c) Deep wound	b) Muscular wound	
(xiii)	Describe the primary goal of perioperative care	d) Subcutaneous wound	
	a) Ensuring patient comfort during surgery	b) Preventing surgical site infections	
	c) Maximizing patient safety before, during,	4)	
	and after surgery	Minimizing healthcare costs	
(xiv)	Select a risk factor for perioperative complicati	ons	
	a) Regular exercise	b) Adequate hydration	
	c) Advanced age	d) Healthy diet	
(xv)	choose the correct site of lumber puncture		
	a) L1-L2	b) L2-L3	
	c) L4-L5	d) S1-S2	
	Grou (Short Answer T		3 x 5=15
	the state of the s	ype questions)	3 X 3-13
2. De	fine procedure and clinical applications of Seng	staken-Blakemore tube.	(3)
3. Discuss the steps involved in inserting an NG tube.			(3)
4. Define gastric lavage and its role in the management of acute poisoning.			(3)
5. Di	scuss the potential complications associated with	th spinal anesthesia.	(3)
6. Differentiate between various airway management devices such as endotracheal tubes and			(3)
su	praglottic airways.	a day to gardinant dend, quede	
Cla	OI assify the types of injuries that require immedia		(2)
	, and appear an injuries that require infinedia	te intervention in trauma patients.	(3)
	Grou	р-С	
	(Long Answer Ty		5 x 6=30
		Mg/American der cale	
7. C	7. Compare nasogastric (NG) tubes and gastrostomy tubes in terms of their placement and indications for use.		
8. C	3. Compare and contrast lumbar puncture and intracranial pressure monitoring devices in terms of their diagnostic utility and associated risks.		
9. D u	Discuss the key principles for providing post-procedural care for patients who have undergone epidural or spinal anesthesia, and write down its key differences from general anesthesia.		
10. Ju	anestnesia. 10. Justify the use of analgesia and sedation in the emergency department for painful procedures, such as fracture reduction or wound debridement, emphasizing patient comfort and procedural success.		
11. D	iscuss the various types of burns, and write abo	ut " Wallace rule of nines" in adult burn	(5)
III	jury patients.		

12. Explain steps should be taken to prepare for performing gastric lavage in the emergency department. (5)

OR

Compare cervical neck collars versus manual immobilization techniques in the management of suspected cervical spine injuries.

(5)

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