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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(CCT)-2021/B.Sc.(CCT)-2022/B.Sc.(CCT)-2023

Course Name – Clinical Scenario for Critical Care Technology

Course Code - BCCTC403

(Semester IV)

	Marks: 60	Time : 2:3		
L	The figure in the margin indicates full marks. Car	ndidates are required to give their answers in	their	
	own words as ta	ar as practicable.]		
	h) ye ungere grefaller mamarch	Hypovortijanov		
	(Multiple Choice	up-A	15 15	
1.	Choose the correct alternative from the following	ina :	15=15	
	, , , , , , , , , , , , , , , , , , , ,	"9 to a local photograph of signify 25, 7 is high		
(i)	Select the right answer- How many types of pulmonary oedema exist.			
	a) 3	b) 2		
	c) 5	d) 4		
(ii)	ii) Write thename of the blood cells, whose reduction in numbercan causeclotting disorder, leading to excessive loss of blood from the body.			
	a) Erythrocytes	b) leucocytes		
	c) Neutrophils	d) Thrombocytes	2.00	
(iii)	Choose the right answer- During the initiation activated by-	of coagulation of blood , the platelets are		
	a) Thrombin	b) Trauma		
	c) Ca++	d) Thrombokinase		
(iv)	Identify the medication class commonly associ	lated with nephrotoxic AKI:		
	a) Beta blockers	b) NSAIDs		
	c) Antibiotics	d) Diuretics		
(v)	Tell part of the brain is responsible for controlling balance and coordination and can be affected by strokes?			
	a) Cerebrum	b) Cerebellum		
	c) Brainstem	d) Hypothalamus		
(vi)	Write which the following is a common symptom of transient ischemic attacks (TIAs)?			
	a) Sudden severe headache.	b) Loss of consciousness.		
	c) Temporary weakness or numbness of the	d)		
	face, arm, or leg, especially on one side of the body.	Blurred vision.		
(vii)	Identify the primary hormone responsible for I	owering blood glucose levels.		

b) Insulin

d) Epinephrine

a) Glucagon

c) Cortisol

(v	iii) Identify the hormone released by the adrenal blood glucose levels.	glands during hypoglycemia to increase	
	a) Glucagon	b) Insulin	
	c) Thyroid hormone	d) Growth hormone	
(i	x) Identify a symptom of severe hyperglycemia.		
	a) Tremors	b) Polyuria (excessive urination)	
	c) Nausea	d) Hunger	
(x) Tell the potential effect of hyperglycemia on the	ne skin.	
	a) Reduced risk of ulcers	b) Improved wound healing	
	c) Increased risk of eczema	d) Increased risk of infections	
(xi) Tell the first step in treating a snake bite victing		
	a) Apply a tourniquet	b) Wash the wound with soap and water	
	c) Suck out the venom	d) Keep the victim calm and immobilized	
()	xii) Select the purpose of a pressure bandage who		
	a) To reduce swelling	b) To slow the spread of venom	
	c) To increase blood flow	d) To prevent infection	
()	 Select the term describing the condition in who despite adequate ventilation. 	nich there is inadequate oxygenation	
		L) Il manuaria manimatary failuro	
	a) Hypoxemic respiratory failure	b) Hypercapnic respiratory failure d) Chronic respiratory failure	
,	 c) Acute respiratory failure xiv) Identify the primary mechanism responsible f 		
()		b) Ventilation-perfusion mismatch	
	a) Hypoventilation c) Diffusion impairment	d) Shunt	
(xv) Tell the characteristic blood gas values associa	and the second s	
(a) pH < 7.35, PaCO2 > 45 mmHg, PaO2 < 60	b) pH > 7.45, PaCO2 < 35 mmHg, PaO2 >	80
	mmHg	mmHg	
	c) pH < 7.35, PaCO2 < 35 mmHg, PaO2 > 80	d) pH > 7.45, PaCO2 > 45 mmHg, PaO2 <	60
	mmHg	mmHg	
	Gr	oup-B	
	(Short Answer	Type Questions)	x 5=15
2	2. Choose the primary causes of coma.		(3)
3. Explain the major complications that can arise from CKD,			(3)
4. Write the main causes of pneumonia?			(3)
	5. Differentiate diabetes mellitus and diabetes ins	pidus	(3)
(5. Explain the indications for non-invasive positive failure?	pressure ventuation (MIFFV) in respiratory	(5)
	lanurer	OR	
	Differentiate between hypoxemic and hypercap		(3)
		to to the second second second second second	
		oup-C	5 x 6=30
	(Long Answer	Type Questions)	, , , ,
	7. Describe the potential complications of skull f	ractures and their management.	(5) (5)
	8. Discuss Acute Left Ventricular Failure (ALVF) and what are its primary causes?		
	Describe the management of acute myocardia	al infarction, including both pharmacological	(5)
	and interventional strategies.	, the standard way (DT) and standard	(E)
	10. Explain the significance of coagulation studies	i, including prothrombin time (F1), activated	(5)
	partial thromboplastin time (aPTT), and interrassessment of coagulopathy.	iational normalized ratio (mix), in the	
	11. Compare and contrast the causes of pre-rena	, intra-renal, and post-renal acute renal	(5)
	failure.	The state of the s	

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