



<b>Year 2019/2020</b>	<b>Subject: Critical and emergency nursing</b>
<b>Final Exam</b>	<b>Second year</b>
<b>Date : 30 / 12/2019</b>	<b>Total Marks: 100</b>
<b>Time allowed:3 hours</b>	<b>Assisst.prof.eman saheen and Assisst.prof.Amal Bakr</b>

**ALL Questions should be answered.**

**Part I (20 Mark)**

**Read the following statement carefully and circle (T) if statement is true and (F) if the statement is false.**

1.	Hemorrhagic stroke represent 10% of stroke	(T) (F)
2.	Sudden onset of symptoms with progression is a character of hemorrhagic stroke	(T) (F)
3.	In local pathology of burn wound , Zone of Stasis is area nearest burn	(T) (F)
4.	Hydrostatic pressure is usually lower in the glomerulus than within the tubule	(T) (F)
5.	Hemorrhagic stroke slightly higher in men than women	(T) (F)
6.	Proximal tubule secretes potassium and bicarbonate	(T) (F)
7.	Apraxia is inability to perform a previously learned action	(T) (F)
8.	Impaired judgment occurs in left side stroke	(T) (F)
9.	Elevate head of the bed to promote venous drainage and increase intracranial pressure	(T) (F)
10.	Circumferential eschar around burned extremity leads to circulatory compromise	(T) (F)
11.	Diffusion injury involve the entire brain	(T) (F)
12.	Concussion is a severe injury in which the brain is bruised, with possibility of bleeding	(T) (F)
13.	Patient classified as having sever head injury if his Glasgow coma scale score falls between 9 to 12.	(T) (F)
14.	Sigh volume should be 2 times per hours	(T) (F)
15.	Constipation lead to decrease intracranial pressure	(T) (F)
16.	Chest wall trauma is an indication of mechanical ventilation	(T) (F)
17.	PaO2 value 76 mmHg is indication for mechanical ventilation	(T) (F)
18.	Respiratory rate < 30 is an indication for mechanical ventilation	(T) (F)
19.	In the mechanical ventilator , the humidifier temperature should be 31 grade	(T) (F)
20.	Ventilation scan assesses blood flow through the lung.	(T) (F)



**Part II (16 Marks)**

**Read the following statement carefully, and then choose the right answer.**

**(10 Mark)**

1. In patients with burn; Potassium (K<sup>+</sup>) excess and Sodium (Na<sup>+</sup>) deficit occur in
  - A. Emergent/Resuscitative Phase
  - B. Acute/intermediate phase
  - C. Rehabilitation phase
  - D. In three phases
  
2. A healthy adult eating a normal diet needs a minimum daily urine output of .....to excrete the body's waste products through the kidneys
  - A. Approximately 600 ml
  - B. Approximately 300 ml
  - C. Approximately 400 ml
  - D. Approximately 200 ml
  
3. Wound care and closure is a priority in
  - A. Emergent/ resuscitative phase
  - B. Rehabilitation phase
  - C. In three phases
  - D. Acute/intermediate phase
  
4. .... is the volume of water filtered from the plasma per unit of time
  - A. Reabsorption and secretion
  - B. Normal Glomerular Filtration Rate
  - C. Urine formation
  - D. Glomerular Filtration Rate
  
5. Urine concentration and dilution occurs in
  - A. The loop of Henle
  - B. Proximal tubule
  - C. Distal tubule
  - D. Collecting duct
  
6. .... is an accumulation of nitrogenous waste products. And it is a consistent feature of acute renal failure.
  - A. Uremia
  - B. Anemia
  - C. Azotemia
  - D. Oliguria
  
7. In the mechanical ventilator, if the patient biting the endotracheal tube cause
  - A. High pressure alarm
  - B. Low pressure alarm
  - C. Temperature alarm
  - D. High respiratory rate alarm
  
8. In the mechanical ventilator, if temperature alarm happened the nurse should



- A. Suction the patient
  - B. Chang the endotracheal tube
  - C. Check gas flow and water level
  - D. Secure all connection
9. Ampecillin should be stopped before cardiac surgery because
- A. It interfere with anesthesia effect
  - B. It interfere with pain relieve medications
  - C. It leads increase body temperature
  - D. It interfere with platelets function
10. Which of the following is a mechanism of hypercapnia
- A. Diffusion limitation
  - B. Ventilation – perfusion mismatch
  - C. Abnormality of the airway - alveoli
  - D. Hypoventilation
11. Hypoxemia occur when
- A. O<sub>2</sub> concentration less than 80%
  - B. O<sub>2</sub> concentration less than 60%
  - C. O<sub>2</sub> concentration less than 70%
  - D. O<sub>2</sub> concentration less than 65%
12. The following medication should be avoided for patient with head injury
- A. Paracetmole
  - B. Anticoagulant
  - C. Opiate analgesic
  - D. Aspirin
13. Patient with increase intracranial pressure should be placed in
- A. Prone position
  - B. Lateral position
  - C. Semi-setting position
  - D. Supine position
14. Cardiac output after cardiac surgery assessed through
- A. Wound
  - B. Urine Output
  - C. Bowel movement



- D. Psychological state
15. Digoxin should be withheld
- A. 4 days before cardiac surgery
  - B. 7 days before cardiac surgery
  - C. 5 days before cardiac surgery
  - D. 1 day before cardiac surgery
16. Endotracheal tube should be changed ----- for patient under mechanical ventilation
- A. Every 4 days
  - B. Every 2 days
  - C. Every 5 days
  - D. Every 7days
17. Appropriate position for patient after administering nitroglycerine is-----
- A. Setting position.
  - B. Semi fowler position
  - C. Supine position
  - D. Tripod position

**Part III (44 Marks)**

**Answer the following questions**

1. Differentiate between major types of stroke according to causes (4 marks)
2. Compare between all stages of chronic kidney disease based on the glomerular filtration rate (10 Marks)
3. Stat post hemodialysis nursing care (6 Marks)
4. Dialysis Disequilibrium Syndrome is a complication of hemodialysis. Explain causes and how to prevent it. (4 Marks)
- 5-Discharge instructions of patient with concussion include (8 Marks)
6. Formulate three nursing diagnosis of patients with respiratory failure (6Marks)
7. State indicators of hemodynamic stability (6Marks)

**Part V: Read the following situations carefully then answer the questions (20 Marks)**



1. Mr. Samir treated from Respiratory failure and he connected with mechanical ventilation.
  - a. Mention three modes of mechanical ventilation. **(4 Marks)**
  - b. State criteria for mechanical ventilation. **(6 Marks)**
  
2. Ahmed a 35-year old male. He complaining from hypertension 2 years ago. He was brought to the hospital with burn (chemical), and referred to burn unit. He burned in his trunk, right leg and arms and hands .He had total body surface areas equal 45% second degree.
  - a. Classify Ahmed burn according to severity based on data in the situation. **(5 Marks)**
  
  - b. Calculate fluid must be given to Ahmed using Evans Formula **(5Marks)**

*Good Luck*

*Dr. Eman shaheen and Dr.amal Baker*