



قائمة الاسئلة

امتحان نهاية الفصل الدراسي الأول - للعام الجامعي 1446 هـ - الموافق -2025/2024م-كلية الطب والعلوم الصحية :: العناية المركزة -المركزة -المص
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- 1) Regarding of electrolytes concentration in body fluid; all true EXCEPT
 - 1) - Na concentration is higher in extracellular than intracellular
 - 2) + Mg concentration is higher in extracellular than intracellular fluid
 - 3) - bicarbonate concentration is higher in extracellular than intracellular
 - 4) - Ca concentration is higher in extracellular than intracellular
- 2) A pressure-triggered breath is initiated and delivered by the ventilator when it senses a:
 - 1) - · drop in flow gradient in the ventilator circuit
 - 2) - · drop in PEEP level in the ventilator circuit
 - 3) - · patient's inspiratory effort causing a slight positive pressure change
 - 4) + · patient's inspiratory effort causing a slight negative pressure change
- 3) During volume-controlled ventilation, the _____ is variable depending on the compliance and airflow resistance characteristics of the patient's lungs.
 - 1) + peak inspiratory pressure
 - 2) - tidal volume
 - 3) - peak flow
 - 4) - inspiratory time
- 4) Which is the mode of ventilatory support in which patient's spontaneous inspiratory efforts are augmented with a set amount of positive airway pressure?
 - 1) - Intermittent mandatory ventilation
 - 2) - Continuous mandatory ventilation (CMV)
 - 3) + Pressure support ventilation (PSV)
 - 4) - Positive end-expiratory pressure (PEEP)
- 5) Which of the following is most appropriate for a female suffering from Insulin dependent diabetes mellitus with a pH of 7.2, HCO₃-17 mmol/L and pCO₂-20 mm HG
 - 1) + Metabolic Acidosis
 - 2) - Metabolic Alkalosis
 - 3) - Respiratory Acidosis
 - 4) - Respiratory Alkalosis
- 6) Transcellular fluid , all the following are true except :
 - 1) - formed by the secretion of epithelial cells
 - 2) - CSF
 - 3) - Pericardial and pleural fluid
 - 4) + Represents 4% of TBW
- 7) Fully compensated in acid base balance means
 - 1) - pH is outside the expected reference range
 - 2) + pH is within the expected reference range
 - 3) - pH, PaCO₂, and HCO₃ are all outside the expected reference range
 - 4) - pH, PaCO₂, and HCO₃ are all within the expected reference range
- 8) Tonicity, ALL true EXCEPT
 - 1) - It is determined by the concentration of non-penetrating solutes in the solution
 - 2) - it is a measure of the ability of a solution to cause water to move into or out of a cell
 - 3) - Isotonic solution This means that there is no net movement of water across the cell membran
 - 4) + .Hypertonic solution causes the cell to swell
- 9) Hypovolemic hyponatremia
 - 1) - Loss of sodium more than water
 - 2) - Plasma osmotic pressure < 280mmol/L





- 3) - Serum Na⁺ <130mmol/L
- 4) Loss of water IS identicle to sodium
- 10) Acute Renal Failure, all the following are false except
- 1) - AKI is sever ARF
- 2) - Potentially irreversible
- 3) Consider ARF if S.Cr increased 3 times
- 4) - Patients receiving RRT are stage 5 according to AKIN classification
- 11) Predisposing factors of ARF in ICU all the following except
- 1) HTN
- 2) - Sepsis
- 3) - Mechanical ventilator
- 4) - Old age
- 12) clinical manifestations of ARF include all the following EXCEPT
- 1) - nausea and vomiting
- 2) - azotemia
- 3) - anurea
- 4) non of the above
- 13) Pressure Control Ventilation,all the following are true except
- 1) - Decreases tracheal injury risk
- 2) Decreases volutrauma risk
- 3) - Preferred for neuromuscular disease
- 4) - Improve gas exchange
- 14) Indications of hemodialysis in ARF, include all the following EXCEPT
- 1) - acute pulmonary oedema
- 2) increases S. creatinine
- 3) - metabolic acidosis
- 4) - hyperkalemia
- 15) Hyperchloremic metabolic acidosis , all true EXCEPT
- 1) - Normal anion gap
- 2) - There is compensatory hyperchloremia by the kidne.
- 3) - Caused by GIT loss of HCO₃
- 4) PH usually within normal range
- 16) A sigh
- 1) A deep breath induced by mechanical ventilators
- 2) - Greater volume than normal tidal volume
- 3) - Provides hyperinflation
- 4) - Prevent atelectasis
- 17) All the following are complications of Acte Liver Failure EXCEPT
- 1) - ARDS
- 2) - Infection
- 3) Decrease cardiac output
- 4) - hepatorenal syndrome
- 18) Treatment of hyperkalemia, all true except
- 1) - 10% Ca gluconate
- 2) - Sodium bicarbonate
- 3) Diuretics as spironolactone
- 4) - Dextrose and insulin
- 19) In Acte Liver Failure, the predictors of cerebral oedema include all the following except:
- 1) - hemodialysis





- 2) - rapid onset of ALF
3) - grade 3 hepatoencephalopathy
4) old age
- 20) A patient who is found unresponsive has arterial blood gases drawn and the results indicate the following: pH is 7.12, PaCO₂ is 90 mm Hg, and HCO₃⁻ is 22 mEq/L. The nurse interprets the results as indicating which condition?
- 1) - Metabolic acidosis with compensation
2) - Respiratory acidosis with compensation
3) - Metabolic acidosis without compensation
4) Respiratory acidosis without compensation
- 21) Dependent variables is The parameters that are set by clinician and RT
- 1) - TRUE.
2) FALSE.
- 22) Compensation can return values to within normal limits in severe acid-base disturbances
- 1) - TRUE.
2) FALSE.
- 23) High anion gap metabolic acidosis means the mean cause of acidosis is increased H, while the loss of HCO₃ causes of normal anion gap
- 1) TRUE.
2) - FALSE.
- 24) The main cause of respiratory alkalosis is hyperventilation
- 1) TRUE.
2) - FALSE.
- 25) In KCL replacement for hypokalemia, Concentrations > 20 meq/L require a central line
- 1) TRUE.
2) - FALSE.
- 26) Acute renal failure In ICU caused by sepsis considers prerenal cause
- 1) - TRUE.
2) FALSE.
- 27) If ALF patient is brought in moderate confusion, the patient has hepatoencephalopathy grade 3
- 1) - TRUE.
2) FALSE.
- 28) syndrome of inappropriate ADH secretion (SIADH) causes normovolemic hyponatremia.
- 1) TRUE.
2) - FALSE.
- 29) Hypovolemic hypernatremia caused by Diabetes Insipidus
- 1) TRUE.
2) - FALSE.
- 30) Symptoms depend upon the rapidity of occurrence of hyponatremia rather than degree of hyponatremia
- 1) TRUE.
2) - FALSE.
- 31) Central Pontine Demyelination Syndrome caused by rapid correction of hypernatremia
- 1) - TRUE.
2) FALSE.
- 32) •Pseudohypokalemia caused by hemolysis
- 1) - TRUE.
2) FALSE.
- 33) If Serum Mg²⁺ > 2.5 meq/L this is Hypermagnesemia
- 1) TRUE.





- 2) - FALSE.
- 34) apnea and respiratory compromise occur if $S.Mg > 8.0$ meq/L
- 1) TRUE.
- 2) - FALSE.
- 35) intrinsic cause is the most common cause of hospital acquired ARF
- 1) TRUE.
- 2) - FALSE.

