



تجميع أسئلة ميد الفزيولوجي

محمد أبو جبة

1.All the followings with regard to transport modalities across plasma membranes are true except ans: passive transport system move substances against their concentration gradient

2. All the followings are considered as active modalities of transport except

asn: transport of steroid hormones

3. Which of the following is required to perform the exchange of na+ with ca++ by counter transport ans: concentration gradient of na+ across membrane and specialized carrier for exchange

4. Which of the following are transported by vesicular transport ans: long peptides

- 5.One of the following requires indirect consumption of ATP ans: secondary active counter transport
- 6.One of the followings is required for facilitated diffusion ans: concentration gradient for transported substance

- 7. Which of the following solutions is having the highest osmolarity ans: 150 mM CaCl2
- 8. Something about depolarization of a membrane
 Ans: I think it was increased conductance to na+ and blocking na+/k+ pump
- 9. About the relative refractory period ans: when na+ channels are closed and not capable for opening
- 10. About the best description about the overshot ans: it was easy and the answer was all of the above
- 11. The highest electrical driving force for clans: the overshot
- 12. The arrangement of events during synaptic transmission (an easy one)
- 13. Exocytosis at nerve terminals ans :increasing ca++ concentration in terminals
- 14. All of the following are true about post synaptic potentials except ans: more negative potentials than Ek

- 15. Something wrong about na+ channels ans: voltage dependent channels are activating at a slower rate than k+channels
- 16. The best description about the salutatory conduction ans: faster than continuous
- 17. Diabetes insipidus decreased adh release –more urination what happens to interstitial f luid ans:hypertonic and hypovolemic
- 18. Hyperaldosteronism more na+ what happens to extracellular fluid

ans: hypertonic and hypervolemic

- 19. Giving one an isotonic solution happens to intracellular fluid ans: isotonic and normovolemic
- 20. Drinking more water what happens to intracellular f ans: hypotonic and hypervolemic
- 21. The most thing associated with negative feedback ans: the temperature decrease the heater turn on

- 22. A question about the blood sugar and insulin ans : negative feedback
- 23. The two systems related to control of the other systems ans: nervous and endocrine systems
- 24. Plateau of the cardiac muscle is mainly due to ans: increased conductance of ca++
- 25. The substance that related mainly to osmolality in the cell is ans:potassium
- 26. The difference between Facilitated diffusion and simple diffusion is

ans: it has a transport maximum

- 27. Water movement by osmosis between fluid by ans: free water concentration
- 28. Something about putting red blood cells in 100mM of CaCl2....the solution is and what happens to the cell ans: isotonic... no change in the cell

- 29. There is no tetanus in the heart because ans: long absolute refractory period
- 30. A hormone is mainly unbound to plasma proteins ans: ADH
- 31. What happens when we increase the binding of hormone to plasma proteins ans: increase the plasma storage for fast replenishment of free hormone
- 32. Which hormones activates tyrosine kinase linked receptors ans: insulin
- 33. Which hormones is similar to dopamine ans: norepinephrine
- 34. Which hormone is an example of neuroendocrine secretion ans: ADH
- 35. An easy question about an examples of second messenger except ans: adenylate cyclase

- 36. Something about the affinity of ligand to a receptor except ans: the higher the affinity, the more ligand concentration
- 37. Something related to epinephrine signal transduction except ans: tyrosine kinase linked receptor
- 38. Leptin hormone related to ans: TRK/JAK/STAT
- 39. Everything is necessary for thyroid hormone signaling except ans :c-AMP / protine kinase A
- 40. You made up a drug that bind to G protein coupled receptor (GPCR) and increase c-AMP ; what method should we use in this drug Ans : cuases irreversible binding of GDP to αs subunits