

MID-TERM MATERIAL:

* كان الامتحان من 40 علامة في 40 سؤال

* درسنا المادة دكتور محمد الخطاطبة ودكتورة ايمان



NUM	Question	choices
1.	The cortical level is responsible for :	a- movement b-equilibrium c- speech and language
2.	In 70kg person , the wrong is :	a- his brain weight 1.4 kg b- the brain contribute for 20% of body resting metabolism c- the brain receive 20% of cardiac output d- brain receive 20% of total blood oxygen e-brain receive 25% of total glucose utilization
3.	If a patient suffer from arrhythiss we should give him :	a-botox b-neostigimine c-lidocane
4.	The NT that alter the mode is :	a- noreepinerphrine b- dopamine c-serotonin d-glutamate
5.	The wrong stamen about Ach :	a- don't alter the mode b- alter the mode
6.	What is The conductive velocity for a nerve if the distance is 25cm and the time it take to cross the fist distance is 1.5 and the second distance is 6.5 ?	a- 50 b-0.5 c-0.005 d-0.16
7.	The wrong stamen about graded potential is :	a- less duration than AP b-it's local c- capable for summation
8.	Which of the following cause myasthenia ?	a- increase in ACH b- decrease in ACH c- increase in Ca++
9.	Wrong about Schizophrenia :	a- decrease in dopamine b- increase in dopamine c- can only be detected by dreaming
10.	Which of the following is not controlled	a-GI system

	by parasympathetic :	b-heart rate c-gland secretion d- vesicular tone
11.	what's wrong about injury for radial nerve :	a- if the injury was in the axilla , the loss of the conductance will be 60% b-if there was loss of sensation , that means some of shwan cells were damaged
12.	cholesterol enters the cell by:	A -simple diffusion B- 1-ry active transport C - 2dry active transport -D facilitated diffusion E –endocytosis
13.	muscranic receptors activate by :	a- ACH b – dopamine c- glutamate
14.	Benzodiazepines :	a-increase Na ⁺ influx b-inhibit Na ⁺ leakage c- induce IPSP
15.	what is the highest electrical driving force force for Cl:-	a-hyperpolarization b -Resting Membrane potential c- overshoot d -depolarization
16.	What's a wrong match?	cons, rods <--- Action potential
17.	oxidative phosphoralytion take place in :	Mitochondria
18.	What's wrong about acetyl choline:	a-in skeletal muscles it causes contraction b -in heart it causes relaxation (notice: smooth muscles and parasympathetic) c -it affects mood
19.	What enters the cell by vesicular transport	a-large peptides b -triglyceride c-ions

Num	Answer
1	C
2	C
3	C
4	C
5	B
6	A
7	A
8	B (not sure)
9	A
10	D
11	B
12	A
13	A
14	C
15	C
16	
17	
18	C
19	A

FINAL EXAM MATERIAL:

1. Multiple cerebral hemorrhages is caused by rapid correction of:

- A) Hyponatremia
- B) Hypernatremia
- C) Hypovolemia
- D) Hypervolemia
- E) Hyperglycemia

Answer: B

2. Hyposmotic overhydration is caused by:

- A) Excess ADH secretion
- B) Decrease in aldosterone secretion



- C) Diabetes insipidus
- D) Decrease in ADH secretion
- E) Diuretics

Answer: A

3. All of the following are related to resting membrane potential **Except**.*

- A) RMP can cause a driving force for Na influx
- B) RMP can cause a driving force for K efflux
- C) RMP is maintained by intracellular negative proteins

Answer: A

4. Difference between cardiac contractile muscle cells and cardiac conductive muscle cells:*

- A) Different K voltage gated channels
- B) Different Ca slow voltage gated channels
- C) Different Cl voltage gated channels

Answer: B

5. Which of the following couples represent second messengers?

Answer: cAMP – calcium

6. All the following are right about receptors **Except**?

- A) They can be found inside the cell or on its surface
- B) They are proteins
- C) Each receptor is specific for a hormone
- D) They are also called ligand

Answer: D

7. When you have a patient with brain or cerebral edema which solution do you use as a treatment?

- A) 0.9% NaCl
- B) 5% glucose
- C) 0.3% NaCl and 3% glucose
- D) 9% NaCl
- E) 0.3% NaCl

Answer: D

8. Incorrect matching:

Insulin - cAMP

9. Large lipids are transferred out from the cell by:

- A) Simple diffusion



- B) Facilitated diffusion
- C) Co-transport
- D) Exocytosis

Answer: D

10. Which of the following is the wrong statement?

calmodulin only bind to 3 calcium

11. All the following are causes of edema **Except:**

- A) Liver dieses
- B) Kidney dieses
- C) Hyperglycemia
- D) Starvation
- E) Radical Mastectomy

Answer: C

12. Binding of a signal molecule to which of the following receptors causes different concentrations of anions / cations in the opposite sides of plasma membrane:

- A) G-Proteins coupled receptors
- B) Ligand-ions channels
- c) Tyrosine Kinase

Answer: B

13. All the following is related to the sympathetic nerves **Except:**

- A) It release Ach from it is preganglionic neuron
- B) It increase heart rate
- C) It is preganglionic neuron is shorter than postganglionic neuron
- D) It causes constriction of the bronchi muscles
- E) It is always excitatory

Answer: E

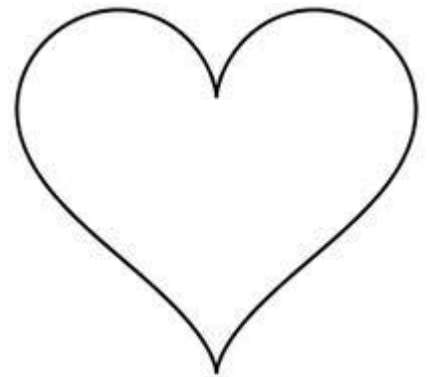
14. Facilitated diffusion:

- A) Needs concentration gradient
- B) Needs channels
- C) Requires energy
- D) More than one answer of the above

Answer : A

15. All of the following are true concerning the RER **Except:**

- A) Synthesis of protein
- B) Ribosomes are attached to it



- C) Enzyme synthesis
- D) Sorting of proteins

Answer: D

16. Which of the following causes down regulation?

- A) Low number of receptors
- B) High concentration of the hormone

Answer: B

17. What is true about transcription factors:

- A) They are synthesis of Lipids
- B) They are synthesis of DNA segments
- C) Determine specific genes expression
- D) Initiate the response of epinephrine in animal cells

Answer: C

18. If you have this value of pressures for the forces calculate the net filtration rate:*

- 1- capillary hydrostatic pressure 10
- 2- interstitial hydrostatic pressure 5
- 3- venous pressure: Not sure but I think it's 15
- 4- arterial pressure 85
- 5- capillary oncotic 30
- 6- interstitial oncotic -5
- 7- filtration coefficient 10

- A) 100 filtration
- B) 200 filtration
- C) 300 filtration
- D) 100 reabsorption
- E) 200 reabsorption

Answer: D or E

19. Which function of G-Proteins causes "auto-inactivation"?*

- A) GTPase of alpha subunit
- B) Binding to a receptor
- C) Dissociation of subunits
- D) Substituted of GDP to GTP

Answer: I don't know

20. Convulsions is occurred by decreasing of:

- A) B12
- B) B6
- C) B9
- D) B1
- E) NONE of the above

Answer: B

21. In conductive system action potential , inhibitor that increases the permeability of K^+ / Cl^- ions , and decreases the permeability of Na^+ / Ca^{+2} across the membrane :

- A) Causes positive inotropic and positive chronotropic
 - B) Causes negative inotropic and positive chronotropic
 - C) Causes neg. inotropic and neg. chronotropic
 - D) Causes neg. chronotropic and pos. inotropic
- Answer: C



الطير المني

The image shows the Arabic calligraphy 'الطير المني' in a large, bold, black font. There is a small signature or mark below the word 'الطير'.