Practice Questions Ch 2, part 2 (cell transport) Updated 9/28/22

| 1. Whi | ch form of active A. H+ pumps | e transport (cell p B. Ca+2 | oumps) is import 2 pumps | ant in cardia C. Na+ pum | c and smooth muscle? ps | |
|--|--|--|--|---|---|--|
| 2 | A. Freely perm | is a term wh eable | nich describes a | membrane th B. Selective | nat allows only certain mole ly permeable | ecules to penetrate it. C. Counter transport |
| 3. Whie | ch form of active A. H+ pumps | e transport (cell p B. Ca+2 | oumps) is import 2 pumps | ant in the sto C. Na+ pum | omach for making hydroch ps | loric acid (HCl)? |
| 4. Whio or fluid | ch form of passiv l pressure, and s A. Simple Diffu B. Filtration C. Osmosis | ve transport of p ubstances can si sion | articles (not wat mply diffuse acr D. Facilitated d E. Facilitated d | er) does not oss the mem iffusion with iffusion with | require any cell surface cha brane (ex. Gases like O2 an protein carriers ion channels | annels or protein carriers, d CO2)? |
| 5. Which pressure | ch form of passiv re? | ve transport invo | olves movement | of particles a | nd fluid across a membran | e with the aid of fluid |
| | A. Simple Diffusion B. Filtration C. Osmosis | | D. Facilitated diffusion with protein carriers E. Facilitated diffusion with ion channels | | | |
| 6. Cells | placed in isotor A. shrink | nic solutions will B. swell | C. not change i | n size or shap | pe. | |
| 7. Cells | placed in hyper A. shrink | tonic solutions v B. swell | vill C. not change i | n size or shap | be. | |
| 8. Cells | placed in hypot A. shrink | onic solutions w B. swell | ill C. not change i | n size or shap | be. | |
| 9. The Na+/K+ pump A. is an example of secondary active transport. B. generates a positive membrane potential. C. actively transports 3 K+ out of the cell and 2 Na+ into a cell. D. actively transports 2 Na+ out of a cell and 3 K+ into a cell. E. actively transports 3 Na+ out of a cell and 2 K+ into a cell. F. actively transports 3 Na+ into the cell and 2 K+ out of the cell. | | | | | | |
| 10. The | e normal resting A30 | membrane pote B50 | ntial of a cell is ₋ C70 | D. +30 | mV. E. +70 | |
| 11. Wh | ich ions, if allow A. Na+ | red into a cell thr B. K+ | ough ion chann C. Ca+2 | els, will stimu D. Cl- | late the cell? E. both A & C | F. both B & D |
| 12. Wh of anot | ich form of activ her substance ir A. Osmosis | ve transport invo n the same direc B. Filtration | lves the passive tion? C. Counter trar | movement o nsport | f one substance, which aid D. Co-transport | s in the active transport E. Simple diffusion |
| 13. Wh | ich form of bulk A. Receptor-me | transport allows ediated | s endocytosis of B. Pinocytosis | fluids? C. P | hagocytosis | |

| 14. A depolarized of | ell (one that has | formed an actio | on potential) tem | porarily has a me | embrane potential of |
|----------------------|-------------------|-----------------|-------------------|-------------------|----------------------|
| A30 | B50 | C70 | D. +30 | E. +70 | |
| | | | | | |

| 15. The term for the active transport of large substances out of a cell is | | | | | | | | |
|--|------------|----------------|---------------|---------------|--|--|--|--|
| A. Diffusion | B. Osmosis | C. Endocytosis | D. Exocytosis | E. Filtration | | | | |

Ch 2 part 2. Answers:

- 1. B
- 2. B
- 3. A
- 4. A
- 5. B
- 6. C
- 7. A
- 8. B

9. E (updated!)

- 10. C
- 11. E
- 12. D
- 13. B
- 14. D
- 15. D

How did you do?