

Name

WINTER QUARTER

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First Quiz

11 January 2012

PEN PLEASE

23/29

Each answer is worth a point:

Put your answers to "a." to the left and "b." to the right:

myelomerephalon
 axonal volume
 peripheral nervous system
 microglia
 blocks release of acetylcholine
 ependymal
 Na⁺/K⁺ pump
 should be re-feeding
 pia mater
 make protein
 Word stems are worth 1 pt:
 spider (no like)
 star
 self, rube
 tree
 tough, mother
 inside head
 stick
 excess above
 membrane
 fatty
 few
 around, bear
 soft
 together, fallen
 far, last

- 1a. From which portions of the advanced embryonic brain are the following formed: a: otic vesicles, b: retina
- 2a. Name the neurotransmitter released from the motor end plate.
b: Name the fluid filled chamber imbedded within the cerebrum.
- 3a. Which branch of the adult nervous system a: consists of everything except the brain & spinal cord, b: is responsible for "fight or flight."
- 4a. Which neuroglial cells a: are phagocytic, part of the R.E.S., b: form the blood-brain barrier.
- 5a. Very briefly, how does botulism neurotoxin work?
b: In what disease is the myelin sheath damaged and scarred?
- 6a. Name the cell: a) ciliated cells which synthesize CSF.
b) forms myelin sheath in peripheral fibers.
- 7a. What membrane component establishes nerve resting potential?
b: What kind of conduction occurs in myelinated nerve fibers?
- 8a. What term describes a: the impossibility of stimulating an impulse during an action potential, b: the embryonic creation of the CNS.
- 9a. Name the membrane surrounding the CNS which is a: inner-most, b: outer-most.
- 10a. What is the function of Nissl bodies? b: Name the structures which synthesize cerebrospinal fluid.
11. arachn-
12. astro-
13. autonomic (2)
14. dendri-
15. dura mater (2)
16. encephal-
17. glial
18. hyper-
19. meninx
20. myel-
21. oligo-
22. peripheral (2)
23. pia
24. synapse (2)
25. tele-

11b: Diagram the electrical events of a nervous impulse, include typical voltages, and events which give rise to the changes in voltages. (4 points)

32	35					
30	40					
31	35	40				
30	35	40				
31	38	41				
34	34	42				
35	32	37	43			
27	34	38	43			
10	23	27	33	37	44	45

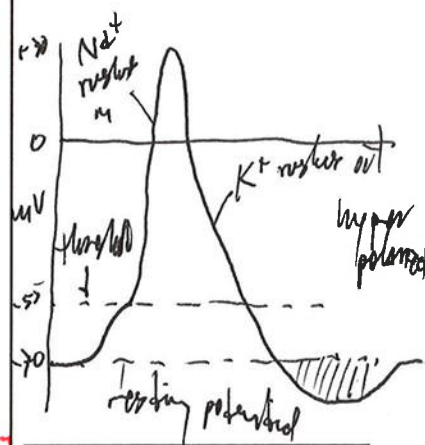
12b: Illustrate a dorsal view of the embryonic brain. Label the five component regions. (5 points)

PLEASE PUT YOUR ILLUSTRATION OVER THERE

12/19

- 1b. diencephalon
- 2b. lateral ventricle
- 3b. sympathetic NS.
- 4b. astrocytes
- 5b. multiple sclerosis
- 6b. Schwann Cells
- 7b. saltatory
- 8b. neurulation
- 9b. dura mater
- 10b. choroid plexus

11b : nervous impulse



12b Embryonic brain:

