Exercise 24 - anwer keys and reviewer notes

Bachelor of Science in Nursing (Cebu Normal University)

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Exercise 24: The Brain and Cranial Nerves

Instructor's Guide—Exercise Specific

MATERIALS

Dissection tools and trays
Chart: human brain
Model: human brain
Preserved specimen: human brain
Protective gear: gloves, safety eyewear, and apron
Colored pencils or pens

TEACHING TIPS

- Consider a demonstration with a *fresh* animal brain. Your local butcher may be able to provide sectioned animal brains for demonstration use. As always, use appropriate safety precautions.
- Consider a field trip to an MRI or CT scanning facility.
- The MRI box is a critical thinking activity.
- I sometimes use CT scans, MRI scans, radiographs, or other medical images in teaching this topic or to let the students try to interpret after they have studied actual specimens. Do not forget to code the medical images for student use (so that you can verify whether the answers are correct). Consider letting the students see the code so that they can verify whether they are on the right track. This is a good critical thinking activity.
- Provide students with an unlabeled copy of the brain or encourage them to use their cell phones to take a picture of the model or specimen. They can then use this illustration/photo for labeling purposes.
- Plastinated sections of human brain specimens are available from various biological suppliers.
- In the Instructor Resources section of the Evolve website, you will find animations which can be utilized either in a brief presentation at the beginning of the lab period, or by students (before, during, or after the lab period) to assist them in understanding the content in this exercise. Students can find these same animations in the Student Resources section of the Evolve website.

ANSWERS

IDENTIFY

1. corpus callosum
2. insula
3. gyrus
4. fissure
5. sagittal sinus
6. cerebellum

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7. arbor vitae
8. pons
9. choroid plexus
10. fourth (ventricle)
11. septum pellucidum
12. intermediate mass (of thalamus)
13. corpora quadrigemina
14. pituitary
15. cortex
16. brainstem
17. medulla oblongata

PUT IN ORDER

1. lateral ventricle
2. foramen of Monro
3. third ventricle
4. cerebral aqueduct
5. fourth ventricle

FIGURE 24-5

1. septum pellucidum
2. caudate nucleus
3. thalamus
4. putamen
5. globus pallidus
6. lentiform nucleus
7. longitudinal fissure
8. corpus callosum
9. lateral ventricle
10. third ventricle

FIGURE 24-8

1. lateral ventricle
2. corpus callosum
3. pituitary
4. medulla oblongata
5. thalamus
6. midbrain
7. pons
8. cerebellum
9. fourth ventricle

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