Self-Assessment 1. Hypothalamus, 6 FEB 2014

Self-Assessments are posted at the end of each four lecture cycle to help you review previous lecture materials. Self-Assessments do NOT have to be turned in and they will NOT be graded.

For each numbered question or figure item, match the best answer.

1-4. **Neural Ectoderm** (a) endoderm (b) epidermis (c) mesoderm (d) neural crest (e) neural plate

5-8. **Neurulation** (a) alar (b) basal (c) BMP (d) CNS (e) floor (f) hedgehog (g) PNS (h) roof

5. The neural groove becomes the _____ plate of the neural tube.
6. The floor plate secretes _____.
7. The roof plate secretes _____.
8. The neural crest gives rise to the _____.

9-12. **Spinal Plates** (a) alar (b) basal (c) floor (d) roof

13-14. **Spinal Neurons** (True or False)
13. Sensory neurons in the dorsal root ganglia are part of the central nervous system.
14. Motor neurons in the ventral spinal cord are part of the central nervous system.

15-18. **Primary Vesicles** (a) forebrain (b) hindbrain (c) midbrain (d) spinal cord

19-23. **Secondary Vesicles** (a) central canal (b) cerebral aqueduct (c) CSF (d) foramen (e) lateral ventricles (f) third ventricle (g) fourth ventricle
24-31. Flat Map (a) basal ganglia (b) cerebral cortex (c) hypothalamus (d) medulla (e) pons (f) tectum (g) tegmentum (h) thalamus

32-38. Thermoregulation (a) hypothalamus (b) cerebrum (c) both (d) neither

Which brain region(s) is required for each behavior?
32. vasoconstriction
33. shivering
34. burrowing under wood shavings
35. vasodilation
36. water retention
37. panting
38. moving to cooler part of the cage

39-42. Diencephalon (a) epithalamus (b) hypothalamus (c) pineal gland (d) pituitary gland

43-45. Hypothalamus & Pituitary (a) anterior commissure (b) anterior pituitary (c) cranial nerve III (d) optic chiasm (e) posterior pituitary (f) third ventricle

46-48. Hypothalamus & Pituitary (a) adrenal cortex (b) anterior pituitary (c) hypothalamus
46. Where is ACTH made?
47. Where is cortisol made?
48. Where is corticotropin releasing hormone (CRH) made?

49-50. Hypothalamic Neuropeptides (a) agouti-related peptide (b) α-melanocyte-stimulating hormone (c) oxytocin (d) vasopressin
49. Orexigenic (hunger) or catabolic tone.
50. Released in childbirth.