

**KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY,  
KUMASI**

**COLLEGE OF SCIENCE**

**B.Sc. (Theoretical & Applied Biology) Mid-Semester Examination, 2017/18**

**Fourth Year**

**BIOL 459: HUMAN REPRODUCTIVE AND NEUROENDOCRINE  
FUNCTIONS**

November, 2017

TIME: FORTY MINUTES

INDEX NUMBER: .....

**INSTRUCTIONS:**

Answer **ALL** questions in the spaces provided on the question paper.

1. What does decussation mean? Functionally, what is the consequence of decussation of the pyramids? **(2 marks)**

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2. What are the major functions of the cerebrum? **(4 marks)**

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3. Where is cerebrospinal fluid formed and where is it reabsorbed? **(2 marks)**

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4. List the five lobes of a cerebral hemisphere and state a function of each lobe.

**(10 marks)**

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5. Which parts of the brain make up the diencephalon?

**(3 marks)**

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6. Injury to which of the nerve plexuses would interfere with the ability to breathe? **(4 marks)**

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7. Distinguish between spinal and cranial nerves (2 marks)

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8. How does a mixed nerve differ from a sensory nerve? (2 marks)

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9. State the three principal functions of the spinal cord. (3 marks)

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10. What brain regions make up the brain stem? (3 marks)

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11. List two autonomic responses that are controlled by nuclei in the hypothalamus. **(2 marks)**

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12. What are the three layers of the cranial meninges, in order from superficial to deep?  
**(3 marks)**

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J. I. ADAM

11. What name is given to axons carrying information between the brain and spinal cord, and what brain regions do they pass through? **(4 marks)**

12. What is hemisphere dominance? **(2 marks)**

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13. State the functions of the cerebellum **(2 marks)**

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14. Name any three cranial nerves and list a major function of each named nerve. **(6 marks)**

1. List four lobes of the cerebrum, and give an important function of each.

**(4 marks)**

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2. List the main components of the diencephalon and state one function of each component **(6 marks)**

An anesthetic blocks the function of the dorsal rami of the cervical spinal nerves. Which areas of the body will be affected?