**Review Worksheet: Hypothalamus and Pituitary**

*Do these questions using your learning resources. Look at the “marks” to give you an idea of the level of detail required in the response (formative only – does not count towards your grade). At the end, mark your work, and fill in the reflection section. Questions marked \* require you to use reasoning, inferring and application of knowledge to get the answer. It won’t be right there in the text.*

1: Where is the hypothalamus located?

(2 marks)

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*…………………………………………………………………………………………………………………..*

2: Where is the pituitary gland located?

(2 marks)

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3: The hypothalamus produces releasing factors that travel to the anterior pituitary. How do these releasing factors get to the anterior pituitary from the hypothalamus?

(2 marks)

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4: Fill in the table below to describe the communication between the hypothalamus and anterior pituitary. The first example is done for you.

(9 marks)

|  |  |  |
| --- | --- | --- |
| **Abbreviation** | **Name** | **Effect on the Anterior Pituitary** |
| PRF | *Prolactin Releasing Factor* | *Stimulates cells of the Anterior Pituitary to produce Prolactin and release it into the systemic circulation.* |
| TRF |  |  |
| CRF |  |  |
| GHRF |  |  |

5: Which tissues/organs are targeted by each of the following hormones produced by the anterior pituitary, and how do those tissues/organs respond?

(3 marks)

|  |  |  |
| --- | --- | --- |
| **Hormone Produced** | **Target tissue/organ** | **Tissue/organ response** |
| TSH (Thyroid Stimulating Hormone) |  |  |
| ACTH (Adrenocorticotrophic hormone) |  |  |
| GH (Growth Hormone) |  |  |

6: How does the hypothalamus communicate with the Posterior Pituitary?

(5 marks)

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7: List the two hormones released by the posterior pituitary and the effects of each.

(6 marks)

|  |  |
| --- | --- |
| **Hormone Released by Posterior Pituitary** | **Effects in the body** |
|  |  |
|  |  |

8: Describe the difference between how Oxytocin and ADH are regulated.

(8 marks)

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Go back and mark your work using the marking key provided. What score did you get? /37

*I included enough detail in my answers.*



*I was able to find information in the text/powerpoint presentation.*

*I was able to reason and infer where the information wasn’t directly in the text (questions with \*).*

*I marked my work and wrote down any answers where I missed marks.*