(10 pts) If all the neural connections between the hypothalamus and pituitary were severed, the secretion of which pituitary hormones would be affected? Which pituitary hormones would not be affected and why?

The neurohypophysis would be affected and specifically oxytocin and ADH. These are the only 2 hormones in the pituitary that are directly released from an axon that originates in the hypothalamus and extends into the pituitary via the infundibulum.

The adenohypophysis hormones (LH, FSH, ACTH, Prolactin, TSH, MSH and GH) would not be affected because they are released upon receiving a releasing factor which uses the hypophyseal portal system (blood) to transport them.