1. **Answer**: D

   Explanation: The pineal gland secretes melatonin, the hormone that regulates the biological rhythm.

2. **Answer:** E

   Explanation: The ovaries secrete progesterone, the hormone that promotes uterine lining growth.

3. **Answer:** C

   Explanation: The thyroid gland secretes calcitonin, the hormone that lowers blood calcium levels.

4. **Answer:** A

   Explanation: The pancreas secretes glucagon, the hormone that raises the blood sugar level.

5. **Answer:** B

   Explanation: The posterior pituitary gland secretes oxytocin, the hormone that stimulates contraction of the uterus and mammary gland cells.

6. **Answer:** D

   Explanation: The thyroid hormone is actually a pair of hormones: ***thyroxine* (T_4)** and *triiodothyronine* (T_3) with the number designation referring to the number of iodine atoms the hormones contain.

7. **Answer:** C

   Explanation: The second set of neurosecretory cells in the hypothalamus secrete two other kinds of hormones into blood vessels that connect to the anterior pituitary: the ***releasing hormone* (*RH*)** and an *inhibiting hormone*. The former stimulates the anterior to secrete one or more specific hormones and the latter acts to stop the anterior pituitary in secreting hormones.

8. **Answer:** D

   Explanation: Unlike the other hormones, *prolactin* (*PRL*) does not lead to the secretion of other hormones, and in mammals, this hormone stimulates the production of milk.

9. **Answer:** C

   Explanation: The pancreas secretes hormones that regulate blood glucose levels. Beta cells in the pancreas release the hormone insulin. When blood glucose levels elevate and stimulate the pancreas, the effect of *insulin* is the uptake of glucose from the blood leading to a decrease in blood glucose levels. *Glucagon* opposes the effect of *insulin* and is released by alpha cells in the pancreas. *Glucagon* causes glycogen to break down into glucose to be released into the blood.

10. **Answer:** D

   Explanation: Insufficient iodine in the diet can cause **goiter**, an enlargement of the thyroid glands.

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