1. Which of the following would cause the greatest increase of plasma insulin concentration if given as equal caloric value?

A. oral glucose.
B. intravenous glucose.
C. intravenous branch chain amino acids.
D. a high protein meal.
E. a high fat meal.

2. Which of the following molecules is an insulin-regulated glucose transporter?

A. GLUT1
B. Glucokinase
C. GLUT2
D. GLUT4
E. Na⁺-Glucose-ATPase

Use the following list to answer questions 3 - 5. (answers may be used once, more than once, or not at all)

A. Thyrotropin-Releasing Hormone (TRH)
B. Somatostatin
C. Gonadotropin-Releasing Hormone
D. Corticotropin-Releasing Hormone (CRH) → ACTH
E. Dopamine → Inhibit PRL

3. This hypothalamic factor increases ACTH release. D

4. This hypothalamic factor stimulates the secretion of two glycoprotein hormones. C

5. This hypothalamic factor inhibits growth hormone secretion. B