1. The endocrine system plays a major role in the establishment of which important functions in the body?
   a. bowel motility, digestion, absorption
   b. brain function, reflexes, balance, touch
   c. respiratory rate, respiratory depth, gag reflex
   d. acid-base, fluid, electrolyte and energy balance
2. The following include a list of three endocrine organs EXCEPT:
   a. ovaries, testes, cerebral cortex
   b. pituitary gland, thyroid gland, adrenal cortex
   c. adrenal cortex, thyroid gland, parathyroid gland
   d. islets of Langerhans in the pancreas, ovaries, testes
3. Which of the following endocrine glands secretes glucocorticoid and mineralocorticoids?
   a. thyroid gland
   b. adrenal cortex
   c. anterior pituitary gland
   d. posterior pituitary gland
4. What endocrine crisis is characterized by the release of too much antidiuretic hormone?
   a. thyroid storm
   b. adrenal cortex
   c. pituitary gland
   d. posterior pituitary gland
5. The following are part of the treatment for thyroid storm EXCEPT:
   a. corticosteroids
   b. propylthiouracil
   c. levothyroxine
   d. beta-adrenergic blockers
6. The incidence of adrenal insufficiency in septic shock or sepsis is believed to be:
   a. 10-20 percent
   b. 15-30 percent
   c. 30-70 percent
   d. 90-100 percent
7. The role of the liver in diabetic ketoacidosis is:
   a. stores glucose for later
   b. converts glucose into glycogen
   c. converts amino acids into urea and glucose
   d. accumulates fatty acids, then converts them into ketones
8. The treatment for DKA is:
   a. 100 units of IV regular insulin as a bolus
   b. 2 units of NPH insulin as an IV bolus
   c. an infusion of D5W at 125-250 mL/hour to correct the patient’s blood glucose
d. 10 units of IV regular insulin as a bolus, followed by 5-10 units/hour by continuous infusion
9. The blood glucose in the patient in hyperglycemic hyperosmolar nonketotic syndrome (HHNK) can be as high as:
   a. 250-350 mg/dL
   b. 300-500 mg/dL
   c. 450-550 mg/dL
d. 600-2,500 mg/dL
10. Other clinical abnormalities found in patients with HHNK are all of the following EXCEPT:
    a. ketonemia
    b. hyperkalemia
    c. hypomagnesemia
d. hypophosphatemia

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**Endocrine Issues in the Critically Ill Patient**

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