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1. Chemical messengers secreted by ductless glands are called _____

- a) Lymph
- b) Platelets
- c) Plasma
- d) Hormones

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Answer: d

Explanation: Hormones are the chemical messengers which are secreted by the ductless glands called endocrine glands. These glands are controlled by the endocrine system.

2. Endocrine glands secrete products into the ducts and transfer it into body cavities.

- a) True
- b) False

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Answer: b

Explanation: Endocrine glands are called ductless glands. They secrete their products directly into the bloodstreams and circulate in the body.

3. Which of the following is NOT an endocrine gland?

- a) Hypothalamus
- b) Pituitary
- c) Parathyroid
- d) Pancreas

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Answer: a

Explanation: All of them are endocrine glands except hypothalamus. Hypothalamus and thymus are not classified as an endocrine gland, but included in the endocrine system as they involve in the secretion of hormones.

4. Which of this statement is INCORRECT regarding the function of hormones?

- a) Reproduction and sexual differentiation
- b) Maintenance of internal environment
- c) Maintain body temperature
- d) Development and growth

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Answer: c

Explanation: Hormones are released by specialized cells of the endocrine glands and act on distantly located target cells. A single hormone can contribute many functions and sometimes many hormones can perform a single function.

5. Mark the one, which is NOT the precursor of the hormone?

- a) Amino acids
- b) Cholesterol
- c) Phospholipids

d) Proteins

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Answer: d

Explanation: Chemically, hormone can be divided into two categories, i.e., lipid soluble and water soluble hormones.

6. What is the precursor of steroid hormone?

- a) Protein
- b) Cholesterol
- c) Carbohydrate
- d) Lipid

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Answer: b

Explanation: Cholesterol acts as a precursor of steroid hormone. DHEA is a natural steroid hormone which is synthesized from cholesterol.

7. Which of the is a fat soluble hormone?

- a) Amine hormone
- b) Peptide hormone
- c) Thyroid hormone
- d) Protein hormone

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Answer: c

Explanation: Thyroid is a lipid soluble hormone while amine, peptide, and protein hormones are water soluble, ranging from size 3 to over 200 amino acids.

8. Name the hormone which is synthesized from histidine amino acid?

- a) Histamine
- b) Epinephrine
- c) Norepinephrine
- d) Dopamine

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Answer: a

Explanation: Epinephrine, norepinephrine, and dopamine are amine hormones, which are synthesized by modifying amino acid tyrosine.

9. Which of the following is protein hormone?

- a) Oxytocin
- b) Insulin
- c) TSH
- d) Antidiuretic hormone

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Answer: b

Explanation: Insulin and human growth hormones are protein hormone while oxytocin and

antidiuretic hormones are peptide hormones. TSH or thyroid stimulating hormone has carbohydrate attached to the protein so it comes under glycoprotein hormone.

10. Name the gland, which releases Neurohormone.

- a) Hypothalamus
- b) Pituitary
- c) Thyroid
- d) Pancreas

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Answer: a

Explanation: Neurohormone are those which changes their function according to their requirements like they can be releasing hormones or inhibiting hormone.