**Combination 1.**

1. Explain the synthesis of catecholamines and their function
2. What is an endocrine system?

**Combination 2.**

1. Explain how hormones are classified
2. Explain Hypotalamo-pituitary-gonadal axis and functions of androgens

**Combination 3.**

1. Explain the secretion and action of growth hormone
2. What type of hormone receptors are present in the body?

**Combination 4.**

1. Explain the synthesis and function of the thyroid hormone
2. How are hormones transported through the human body?

**Combination 5.**

1. Explain the regulation of hormone production
2. Explain the chemical structure and function of insulin

**Combination 6.**

1. Explain the synthesis and release of hormones regulated by the hypothalamus and pituitary gland
2. What is the role of cortisol and aldosterone in the body?

**Combination 7.**

1. Where are steroid hormones synthesized and from which precursor?

2. Explain the chemical structure and function of glucagon

**Combination 8.**

1. Explain how hormones act in the human body
2. What is the function of oxytocin vasopressin and melatonin?

**Combination 9.**

1. What types of hormones act through G-coupled and tyrosin receptors?
2. What is the function of calcitonin and parathyroid hormone?