**Combination of questions for 2. week of lecture**

**Combination 1.**

Explain the inhibition of enzyme activity by competitive inhibitor

Explain the function and clinical significance of lipase

**Combination 2.**

Explain the function and clinical significance of gamma glutamate transferase

Explain the inhibition of enzyme activity by uncompetitive inhibitor

**Combination 3.**

Explain the function and clinical significance of AST and ALT

Explain inhibition of enzyme activity by noncompetitive inhibitor

**Combination 4.**

Explain inhibition of enzyme activity by irreversible inhibitor and its clinical impact (penicillin)

What are isoenzymes?

**Combination 5.**

What is the mechanism of enzyme regulation by enzyme availability?

Explain the function and clinical significance of lactate dehydrogenase

**Combination 6.**

Explain the mechanism of enzyme regulation by covalent modification by phosphorylation

What are functional and non-functional serum enzymes?

**Combination 7.**

Explain the mechanism of enzyme regulation by covalent modification by proteolysis

Explain the function and clinical significance of creatine kinase

**Combination 8.**

What is the allosteric modification of enzyme activity?

Explain the function and clinical significance of alkaline phosphatase

**Combination 9.**

What are the 6 major classes of enzymes?

Explain the function and clinical significance of acid phosphatase

**Combination 10.**

What causes the changes in enzyme activity in serum?

Explain the function and clinical significance of amylase