

STUDY GUIDE FOR LECTURE EXAM (P2) (CHAPTERS 4-7)

1. Chapter 4

1. Define the types of carbohydrates and their functions

Essential carbohydrates

- Carbohydrates are important
- Many carbohydrates are used as energy
- Many carbohydrates are also used as structural

Carbohydrates in the body

- Carbohydrates are used as energy and structural
- Carbohydrates are used as energy and structural
- Carbohydrates are used as energy and structural

2. For each monosaccharide, define its structure, name, and function

Monosaccharides are simple sugars

3. In the context of cellular metabolism, define and distinguish between the three

Essential carbohydrates: sugar, starch, and glycogen

Essential carbohydrates: sugar, starch, and glycogen

Essential carbohydrates: sugar, starch, and glycogen

4. List the functions of the carbohydrate system

Functions of the carbohydrate system

- Fuel metabolism in physical activity
- Structural storage
- Energy
- Regulate cellular energy
- Provide energy for
- Provide energy for the cellular activities
- Regulate cellular energy
- Act as a signal molecule
- Regulate cellular energy

5. Name all the products of cellular glycolysis

Cellular glycolysis: the breakdown of glucose into pyruvate

Cellular glycolysis

Cellular glycolysis: the breakdown of glucose into pyruvate

Cellular glycolysis: the breakdown of glucose into pyruvate

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