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ASSIGNMENT 06

The Human Digestive System

Organs, enzymes and process

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SUBJECT

Biology

SUBMITTED TO

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01 Introduction

The digestive system converts the food we eat into nutrients that the body uses for energy, growth and repair. It consists of the alimentary canal and associated glands.

02 Organs of the Digestive System

Food passes through a long tube from the mouth to the anus.

- Mouth and teeth – chewing and saliva
- Oesophagus – carries food by peristalsis
- Stomach – churning and gastric juice
- Small intestine – digestion and absorption
- Large intestine – absorbs water

Enzyme	Secreted by	Acts on	Product
Salivary amylase	Salivary glands	Starch	Maltose
Pepsin	Stomach	Proteins	Peptides
Lipase	Pancreas	Fats	Fatty acids and glycerol
Trypsin	Pancreas	Proteins	Peptides

03 Digestive Glands and Enzymes

Glands secrete juices containing enzymes that act on specific nutrients.

- Salivary glands – salivary amylase acts on starch
- Gastric glands – pepsin acts on proteins
- Liver – bile emulsifies fats
- Pancreas – trypsin, lipase and amylase

Remember

Digestion breaks down complex food into simple, soluble substances the body can absorb.

04 Absorption and Assimilation

Villi in the small intestine increase the surface area for absorption. Absorbed nutrients reach every cell through the blood and are used for energy and growth.

05 Conclusion

A healthy diet, regular meals, enough water and fibre keep the digestive system working well.

06 Bibliography

- NCERT textbook, relevant chapter (latest edition).
- Reference book on the subject, standard edition.
- Class notes provided by the teacher.