

CHAPTER – BIOMOLECULES

ONE MARK QUESTIONS

1. What are the three types of RNA molecules which perform different functions? (2013)
2. What type of bonding helps in stabilizing the α – *helix* structure of proteins? (2013)
3. Name the products of hydrolysis of lactose.
4. What is denaturation of protein?

TWO MARK QUESTIONS

1. Write the important structural difference between DNA and RNA. Of the two bases, thymine and uracil, which one is present in DNA? (2012)
2. Name the products obtained on reaction of glucose with
a) HI b) HNO₃
3. State what you understand by primary structure and secondary structure of proteins. (2011)
4. What are essential and non-essential amino acids? Give one example of each type. (2010)

THREE MARK QUESTIONS

1. Differentiate between
a) Amylose and amylopectin
b) Fibrous and globular proteins
c) Nucleoside and nucleotide
2. Name a disease that is caused due to the deficiency of the following vitamins:
a) Thiamine (b) Riboflavin (c) D
3. The two strands in DNA are not identical but are complementary. Explain. (2011)

FIVE MARKS QUESTIONS

1. a) What is glycogen? How is it different from starch? How is starch structurally different from cellulose?
b) Explain what is meant by the following:
i) Peptide linkage ii) Pyranose structure of glucose (2012)

VALUE BASED QUESTION

1. A person in Mahesh's neighbourhood was suffering from bleeding gums. Mahesh suggested him to include citrus fruits in the diet.
a) Which disease was the person in Mahesh's neighbourhood suffering from?
b) What is the cause of this disease?
c) What are vitamins?
d) Mention the value associated with Mahesh.
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