

By. Er. Dharmendra Sir

7974073108, 9584873492

# **DPM CLASSES**

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

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**TEST - PAPER (CBSE/NCERT)**

**BIOMOLECULES**

**SESSION -2024-25**

**CLASS - 12<sup>th</sup>**

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Time: 1 hr

-: Biomolecules :-

mm:

Q. 1. Explain the terms primary and secondary structure of proteins. What is the difference b/w  $\alpha$ -helix and  $\beta$ -pleated sheet structure of proteins?

Q. 2. Coagulation of egg white on boiling is an example of denaturation of protein. Explain it in terms of structural changes.

Q. 3. How do enzymes help a substrate to be attacked by the reagent effectively?

Q. 4. Structures of glycine and alanine are given below. Show the peptide linkage in glycylalanine.



(Glycine)

$\text{CH}_3$   
(Alanine)

Q. 5. Amino acids behave like salt rather than simple amines or carboxylic acids. Explain.

Q. 6. Sucrose is dextrorotatory but the mixture obtained after hydrolysis is laevorotatory. Explain

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Q.7. Amino acids can be classified as  $\alpha$ -,  $\beta$ -,  $\gamma$ - and so on depending upon the relative position of amino group with respect to Carboxyl group. Which type of amino acids form polypeptide chain in proteins?



Q.8. Aldopentoses named as ribose and 2-deoxyribose are found in nucleic acids. What is their relative configuration?



Q.9. Which sugar is called invert sugar? Why is it called so?

Q.10. Name the linkage connecting monosaccharide units in polysaccharides.



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