

Class : XIth Date : Subject : BIOLOGY DPP No. : 8

## **Topic :- Biomolecules**

- The physical and the chemical compositions of amino acids are essentially of the a) Only the carboxyl group
  b) Only the *R*-functional group
  c) Amino, carboxyl and *R* groups
  d) Only amino group
- 2. The proteinaceous molecule that joins a non-proteinaceous prosthetic group to form a functional enzyme is called
  - a) Co-factor b) Apoenzyme
- c) Holoenzyme

d)Isoenzyme

- 3. Select the correct constituents of protein a) Carbon, hydrogen, oxygen and nitrogen
  - c) Carbon, hydrogen, nitrogen, oxygen and sulphur

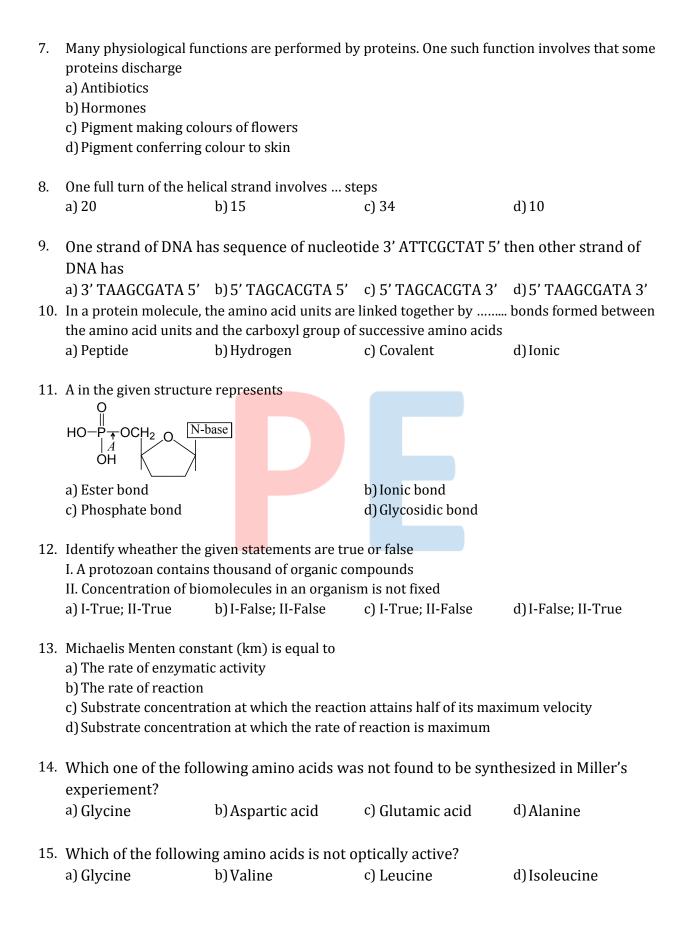
b) Carbon, hydrogen, nitrogen and sulphurd) Carbon, hydrogen and oxygen

- 4. The  $\beta$ -pleated sheet structure found in proteins is due to
  - a) Linking together of two o<mark>r mo</mark>re polypeptides
  - b) Coiling of polypeptide ch<mark>ains</mark>
  - c) Formation of peptide bonds
  - d) Folding of the coiled polypeptide chains
- 5. Enzymes, vitamins and hormones can be classified into a single category of biological chemicals, because all of these
  - a) Enhance oxidative metabolism
  - b) Are conjugated proteins
  - c) Are exclusively synthesized in the body of a living organism as at present
  - d) Help in regulating metabolism
- 6. Paraffin wax is

a) Ester

b)Acid

c) Monohydric alcohol d)Cholesterol



16. What provides roughage (fibre) in our diet?a) Celluloseb) Sucrosec) Maltose

d)Collagen

- 17. Starch can be used as an indicator for the detection of traces of
  - a) Glucose in aqueous solution b) Proteins in blood
  - c) Iodine in aqueous solution d) All of the above
- 18. Pick the odd statement out
  - a) Removal of CO<sub>2</sub> from amino acids converts an amino acid into an amine
  - b) All the biomolecules have a turnover
  - c) Metabolic pathway are termed as transformation reactions
  - d) Metabolic pathways always follows a linear route
- 19. Which one is the sweetest sugar?a) Glucoseb) Fructosec) Sucrosed) Maltose
- 20. Choose the correct graph showing, the effect of pH on the velocity of a typical enzymatic reaction (V)?

