

P. S. SCIENCE & H. D. PATEL ARTS COLLEGE, KADI

Internal Examination

B. Sc. SEM - II

[Mark : 40

22-3-2016]

Molecules of Life (BT-201)

[1-30 to 3-00

1. Attempt all the Questions. 10

- (1) Amino acids are
(A) Building blocks of proteins (B) Blocks of organism
(C) Polypeptided blocks (D) Polyhydro esters
- (2) Example of aldo hexose
(A) fructose (B) Glucose (C) galatose (D) All
- (3) Animal carbohydrate
(A) Glycogen (B) Cellulose (C) Insulin (D) B + C
- (4) Sugar of DNA contains carbon
(A) C6 (B) C5 (C) C12 (D) C3
- (5) Buffer solution
(A) Always pH-7 (B) Depend of H⁺ ions
(C) Maintain pH (D) None of these
- (6) Distance between base pair of DNA
(A) 3.4 (B) 4.5 (C) 3.5 (D) 3.6

Answer the following :

- (7) RNA Full form
- (8) Example of amino acid
- (9) Examples of mucosacchride
- (10) Type of DNA

2. Attempt any four questions. 20

- (1) Define pH and p^H scales with examples.
- (2) Describe classification of cerbohydrates with examples
- (3) Explain H-H equation
- (4) Define buffer solution
- (5) Explain water structure and properties.
- (6) Describe functions of carbohydrates

3. Attempt any one question. 10

- (1) Explain polysaccharide, structure and functions with examples.
 - (2) Describe double helix structure of DNA.
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