

P. S. Science & H. D. Patel Arts College, Kadi

Internal Examination 2018

Sem-II (Biotechnology)

Paper- CBT-I-II Molecules of Life

Date:- 8-3-18

Hours:- 2 hrs

Time:- 1.45 to 3.45

Marks:-40

1 Attempted all questions..... (10x 1M=10M)

Q-1.1 Amino acids are

- A. Building blocks of proteins
- B. Polypeptide blocks
- C. Blocks of organisms
- D. Polyhydro esters

Q-1.2 Example of keto hexose

- A. fructose
- B. galatose
- C. Glucose
- D. None of them

Q-1.3 Animal carbohydrate

- A. Glycogen
- B. Insulin
- C. Cellulose
- D. B+C

Q-1.4 Sugar presents in RNA

- A. C6
- B. C12
- C. C5
- D. C3

Q-1.5 Buffer solution

- A. Always pH-7
- B. Maintain pH
- C. Depend on H⁺ ions
- D. None of these

Q-1.6 Distance between base pair of B-DNA

- A. 3.4
- B. 4.5
- C. 3.5
- D. 3.6

Q-1.7-1.10 answering the followings

- A. DNA Full form
- B. Example of polar amino acids
- C. Examples of homo polysaccharide
- D. Types of RNA

Q-2 Answer any four (4) questions..... (5x4M=20M)

2.1 Define pH scales with examples

2.2 Describe classification of carbohydrates with examples

- 2.3 Explain M M equation
- 2.4 Define Amino acids with examples
- 2.5 Explain water structure and properties
- 2.6 Describe biological significances of carbohydrates

Q-3 Answer any one (1) question(10x1=10M)

- 3.1 Explain non reducing sugar, structure and functions with examples
- 3.2 Describe double helix structure of DNA, draw neat clean diagram.