

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

Internal Examination

B. Sc. SEM - II

[Mark : 40

15-3-2017]

Molecules of Life (BT-201)

[1-30 to 3-30

1. Do as Directed.

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- (1) What is the molecular weight of water ?
(A) 10 g/mol (B) 15 g/mol (C) 18 g/mol (D) 20 g/mol
- (2) Clotting of the blood require _____ vitamins.
(A) Vitamin D (B) Vitamin A (C) Vitamin B (D) Vitamin K
- (3) The sugar moiety present in DNA is
(A) Ribulose (B) Arabinose (C) Ribose (D) Deoxyribose
- (4) pH of buffer solution depends upon concentration of
(A) acid (H^+) (B) conjugate base ($-OH^-$)
(C) salt (D) both A and B
- (5) pH can be kept constant with help of
(A) saturated solution (B) unsaturated solution
(C) buffer solution (D) super saturated solution
- (6) Buffers present in blood contain.
(A) HCO_3^- (B) hemoglobin (C) $H_2PO_4^-$ (D) all of them
- (7) _____ is a fat soluble vitamin
(A) Vit. A (B) Vit. D (C) Vit. E (D) All
- (8) The most abundant bio molecule on the earth
(A) Nucleic acids (B) Proteins (C) Lipids (D) Carbohydrates
- (9) The cells depends solely on glucose as an energy source are
(A) muscle cells (B) brain cells (C) kidney cells (D) liver cells
- (10) Full name of ATP and GTP

2. Attempt the question any four.

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- (1) Write a note on Disaccharide
- (2) Write a note on acid titration curve
- (3) Write a note on Homo polysaccharide
- (4) Explain the classification on Amino acid
- (5) Write the note on biological importance of lipid
- (6) Write a note on Vitamins

3. Attempt the question any Two.

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- (1) Write a note on Monosaccharide classification.
- (2) Write a note protein structure
- (3) Write a note Chemical and physical properties of Water.