

BIOCHEMISTRY (1st Year) : UNIVERSITY QUESTIONS

(Topical Past Papers : 2007 – 2019)

(Compiled by Syed Shahzaib, N-69 , Nishtar Medical University, Multan.)

BIOCHEMICAL ASPECTS OF A CELL

(including Water & pH)

- 1(a)- Define pH. What is the influence of pH on the Structure and function of biological molecules?
- b) Name the processes which help in the transport of substances across the cell membrane. Enumerate 4 important factors that determine net diffusion of a substance across the biological membrane.
- 2(a)- What are the intracellular events following the activation of Gq protein?
- b. Define osmotic pressure. What is the importance of osmotic pressure exerted by plasma proteins?
- 3(a)- What are G protein? How are G protein activated and inactivated?
- b)-Define pH and buffer solution. Give 4 examples of body buffer along with site where they act best.
- 4(a)- Elaborate the structure, friction and coordination in plasma membrane of eukaryotic cells.
- b) Illustrate the term pH, POH, PK, pI and buffer in relevance to biological system.
- 5(a)- What are receptors? How is an activated G protein inactivated?
- (b) Define PI (Iso electric PH) and metabolic acidosis. What is the principle of pH metery? What is mechanism of facilitated diffusion for the transport of substances across the cell membrane?
- 6(a)- what do you understand by lipid-anchored and integral protein in membrane structure? How is G protein activated?
- b) How do protein molecules play their role in acid base buffering? Define

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Marco Cascella



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