

**DEPARTMENT OF BIOLOGY****GRADE: 10, PROJECT****TERM-1, ACADEMIC YEAR 2017 – 18**

Project.	1	Topic	Decrease in Blood pH : Dangers and Remedies		
Grade	10	Section		Submission Date	Sunday, 15-10-2017
Student Name					

In order that the various functions of the body may be properly performed, it is essential that the blood maintains its slightly alkaline reaction within extremely narrow limits. When this degree of alkalinity is diminished, a condition of acidosis, with its accompanying phenomena, is observed. A truly acid reaction of the blood (that is, a hydrogen-ion concentration greater than pH-7.0+) is incompatible with life.

Various protective mechanisms serve to maintain the acid-base equilibrium of the organism and thereby protect the blood from significant changes in hydrogen-ion concentration. Such processes are increased production of ammonia, the excretion of carbon dioxide by the lungs, the excretion of nonvolatile acids by the kidneys, and finally, the buffer action of the blood itself

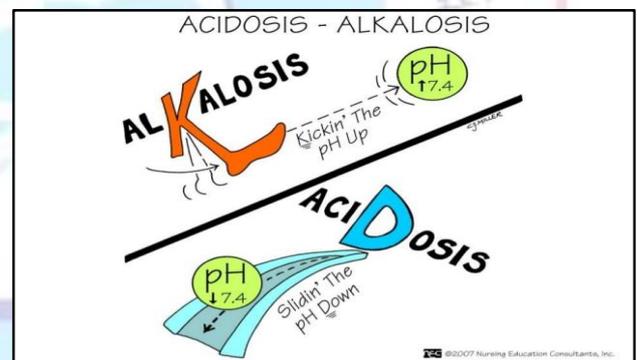
By the term "buffer action" of a mixture is meant its ability to take up considerable amounts of acid or alkali when these are added to it

Based on the given information, prepare a research assignment on the dangers and remedies of decrease in blood pH taking into account the following questions:

- What brings about the changes in pH of the blood?
- How is it detected?
- What can we do if the blood pH decreases?
- Diseases caused by decrease in blood pH.

**Project Requirement:**

- Must include 2-3 A4 size papers
- Must answer all the queries.
- Must include few pictures related to the topic
- Must have an appropriate research work done in the areas of the queries along with bibliography.
- Should be neat and attractive and submitted on time.



## RESEARCH WORK – RUBRICS

CRITERIA	EXCELLENT (10 Marks)	PROFICIENT (8 Marks)	AVERAGE (6 Marks)	POOR (4 Marks)
Content	Provides complete information from various sources.	Provides complete information from few sources.	Provides some essential information from few sources.	Provides little information.
Organization	Good organization of information.	Information is logically presented.	Has made an effort to give information.	Lack of systematic presentation
Meets Goals	Gives complete and relevant details.	Gives relevant details.	Gives some details.	Deviates considerably from required information.
Neatness	Excellent presentation of work	Presentation is good	Presentation is average	Lacks neatness

**..... All the Best .....**

