



DEPARTMENT OF CHEMISTRY
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CERTIFICATE

This is to certify that Ms. Vaishali Agarwal.....
Carried a Research work/ Project Work/ Dissertation/Field Work entitled
Sodium - Potassium Pump.....
..... This is an original work
submitted by her for the partial fulfillment of the requirement of the degree of
Bachelor of Science..... in Chemistry (CBCS)..... under the
University of Calcutta. Neither of this Research work/ Project Work/
 Dissertation/Field Work nor any part of it has been submitted elsewhere for any
degree/diploma.

Bhaskari Bhattacharya
Head 08.07.2022
Head
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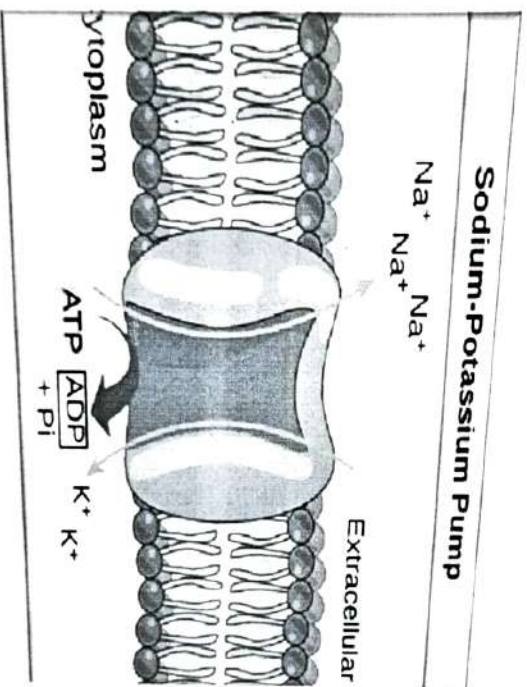
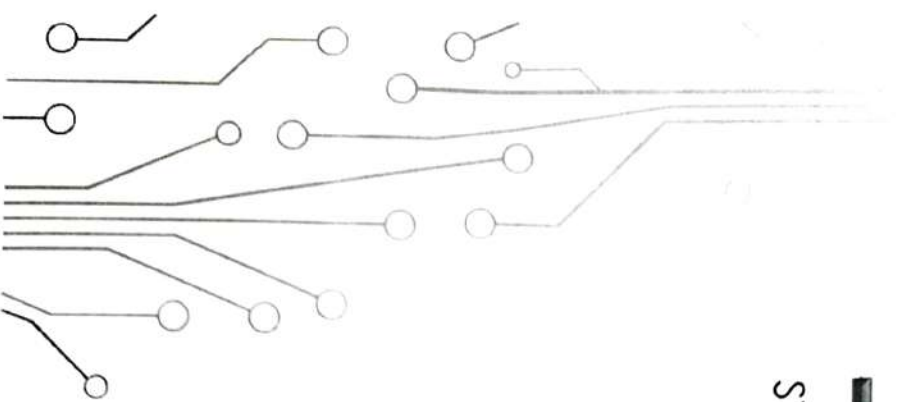
Department of Chemistry.....

Government Girls' General Degree College, Ekbalpur

SODIUM-POTASSIUM PUMP



STRUCTURE, FUNCTION, REGULATION, PHYSIOLOGY, AND PHARMACOLOGY



BY VAISHALI AGRAWAL

CEMA DSE-B4 (DISSERTATION)

B. SC. CHEMISTRY (HONS.)

SEM-6 (UNDER CBCS) EXAM-2022

ROLL NO. 193027-11-0002

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INTRODUCTION

- ❖ The sodium-potassium pump was discovered in 1957 by the Danish scientist Jens Christian Skou, who was awarded a Nobel Prize for his work in 1997.
- ❖ The ion pumps maintain the active transport system.
- ❖ It helps to maintain membrane potential in cells and osmotic equilibrium in the membrane (in which the concentrations are equal on both sides of the membrane).
- ❖ The pump maintains the gradient of a higher concentration of sodium extracellularly and a higher level of potassium intracellularly.

