YEAR 11 BIOLOGY- TERM ONE RECAP WORKSHEETSUB- STRAND 1.3CELL PROCESSES

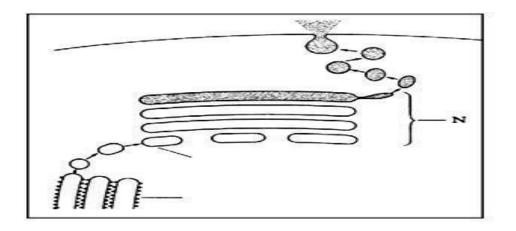
WORKSHEET 4

<u>DAY 1</u>

- 1. Explain the roles of channel proteins.
- 2. Explain the roles of carrier proteins.
- 3. Name two membrane protein.

<u>DAY 2</u>

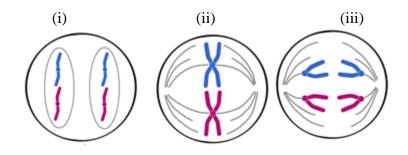
The diagram below shows secretion of mucus, the slimy substance which serves as a lubricant in animals. Use the diagram and your knowledge to answer the questions that follow.



- (i) Name the structure labeled **N**.
- (ii) State the function of structure labeled N.
- (ii) Name the process shown above.

<u>DAY 3</u>

- 1. Explain why the process of mitosis is important during cell division.
- 2. Name the following mitotic stage.



<u>DAY 4</u>

Study the table below and answer the questions that follow.

Cube (Model Cell)	Total surface area	Volume
A	8 cm^2	1 cm^3
В	24 cm^2	8 cm^3

(i) Explain why cube A will have faster diffusion rate than cube B.

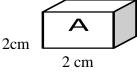
- (ii) State one advantage of cells that are smaller in size.
- (iii) Which animal (Cat and a rat) will lose body heat more quickly? Explain why?

<u>DAY 5</u>

1. Which of the following has the lowest diffusion rate?

A.16:1 B. 24:6 C. 8:1

2. Calculate the surface area to volume ratio of the cube shown below.



3. Calculate the surface area to volume ratio of the cube shown below.

