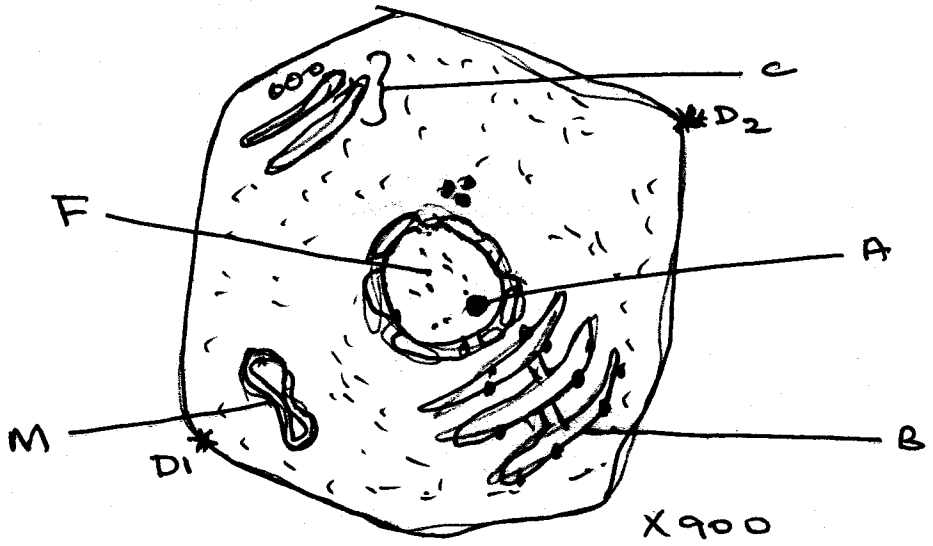
GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.

FORM 1 BIOLOGY MID TERM EXAMINATION. TERM 2 2015.

NAME:_____CLASS:_____ADM:_____

1. The diagram below shows the structure of a liver cell as seen using an electron microscope.



i) Name the parts labeled (4mks

A _____

B _____

C _____

M _____

II) Name the fluid labeled (1mk

F

iii) State the functions of parts labeled

a) A (2mks

M (1mk

iv) Calculate the actual diameter of the cell between points D1 and D2 (4mks

v) Name one organelle shown in the diagram that is usually absent in plant cells. (1mk

2. A light microscope had the following magnifying lenses.

Eyepiece lens magnification	Objective lens magnification.
10	5
10	10
10	50

i) Give the lenses combination that would give.

(i) The highest magnification (2mks

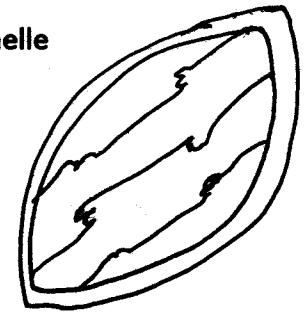
ii) The widest field of view (2mks

iii) A larger part of the specimen (2mks

iv) Smaller part of the specimen (2mks

3. Below are common organelles found in both animal and plant cells. Identify each and state their function.

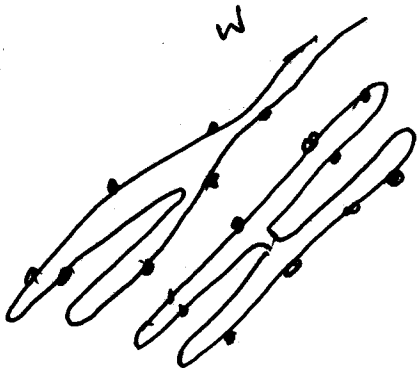
a) Organelle



Identity_____(1mk

Function_____(2mks

b)



Identity for w_____(1mk

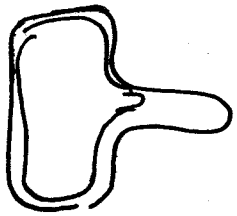
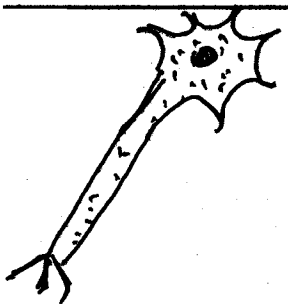
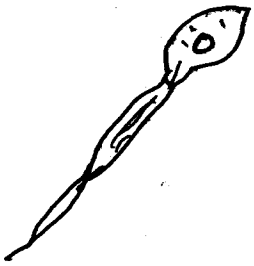
Function_____(2mks

4. Which organelle would be abundant in cells of

i) Rapidly respiring tissue (1mk

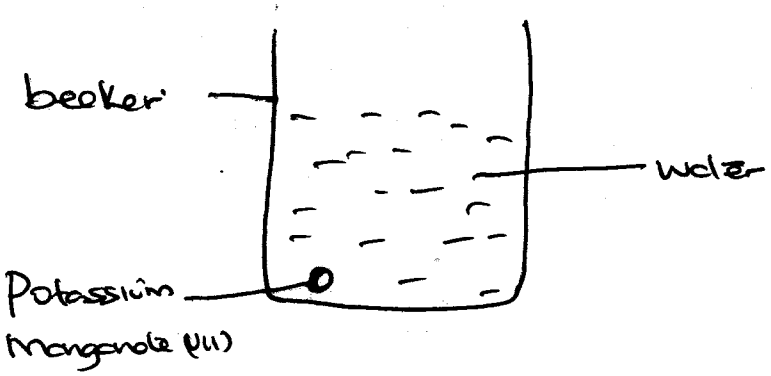
ii) Secretory gland (1mk

5. Complete the table below on some specialized cells

Cell identity	Adaptation	Function (4mks
 Identify		
 Identify		
 Identify		

6. The cell membrane is said to the semi permeable. Explain what the above statement means. (2mks

b) A Form One student set up the expt. Below to investigate a certain physiological process



i) Which physiological process was being investigated_____(1mk

ii) State observation (2mks

iii) Explain above observation. (2mks

7. State 3 roles of the above physiological process in animal and plants. (3mks

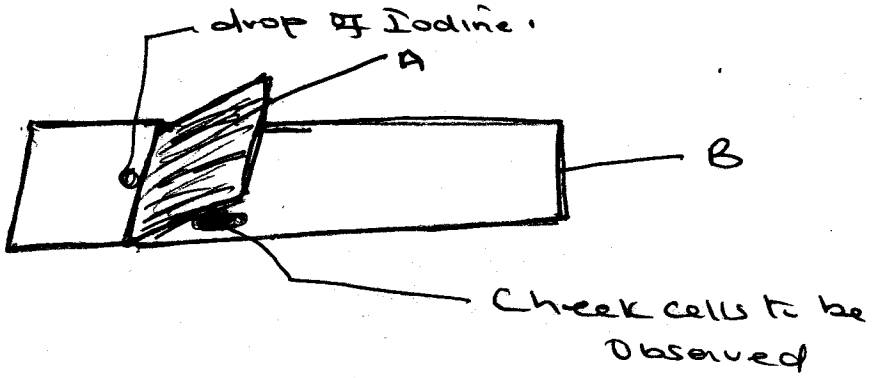
i)

ii)

iii)

b) Define the term Osmosis_____(2mks

8. The diagram below shows preparation of check cell for viewing under light microscope.



i) Name the apparatus labeled (2mks

A

B

ii) State the importance of Iodine applied above. (2mks

9. Draw a simplified diagram showing a plant cell and label only the parts that are absent in animal cell (as seen under light microscope. (Back page)(5mks