KAHUHO UHURU HIGH SCHOOL

SCIENCE DEPARTMENT

FORM 2:BIOLOGY

END OF TERM TWO EXAMINATIONS

Name: Class: Adm.No:

Instructions

1.Attemt all questions in this paper

2.Attempt in the spaces provided

1.Define the term cell specialization (2mks)

2.Name any two specialized cells in plants and how each is modified (4mks)

3.State the functions of the following cell organelles

(a)Ribosome (1mk)

(b)Rough endoplasmic reticulum (1mk)

(c)Nucleolus (1mk)

4.Explain how a roothair cell is adapted to its function (4mks)

5.State the adaptation of xylem vessels to their function (3mks)

6.Explain why oxygen is important in the process of active transport in cells (3mks)

7.State four factors that determine energy requirements in human beings (4mks)

8.The diagram below represents a light microscope.Use it to answer the questions that follow.

(a)Name the parts labeled 1 to 7 (7mks)

(b)When mounting a specimen on a slide for viewing under the microscope

(1)Why is the specimen stained? (2mks)

If a section is section is prepared for viewing under the microscope ,why is it cut into very thin sections? (2mks)

9.The figure below is a plan diagram from a crosssection of a dicotyledonous plant

(a)identify parts labeled P to S (4mks)

(b)State the functions ofparts labeled R and S (2mks)

10.(a)Define the term transpiration (2mks)

(b)state three types of transpiration (3mks)

(c)Explain two factors that affect transpiration (4mks)