Name: …………………………………………………………… Adm No ……..…...................................

Date: …………………………………………………………… Class ………………………………….

231/3

BIOLOGY

TERM 3 2013

2 HOURS



RUNGIRI HIGH SCHOOL

 Form Two End Year Examination.

Biology

Form Three

2 Hours

Term 3 2013

INSTRUCTIONS TO STUDENTS:

* *Write your name, admission number and class in the spaces provided.*
* *Write the date of examination in the space provided above.*
* *Answer all the questions in the question paper in the spaces provided after each question.*
* *This question paper consist of 7 printed pages. Each student should ensure that all the pages are printed as indicated and that no pages are missing.*

*For Examiner’s Use Only*

|  |  |  |
| --- | --- | --- |
| Question | Max Score | Student’s Score |
| 1  | 15 |  |
| 2 | 11 |  |
| 3 | 14 |  |

 Total

40

1. The diagram below shows a dissection of the ventral region of a small mammal. Study the photograph

and answer the questions that follow.



(a). Name **two** body systems represented in the photograph. (2 marks)

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(b). Identify each of the parts labeled **A** and **C**. (2 marks)

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(c) (i). State the role of part labeled **A**. (1 mark)

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(ii). State **two** adaptations of the part named in (c) (i) above. (2 marks)

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(d). State **three** adaptations of the part labeled **B**. (3 marks)

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(e). Explain the role of the part labeled **C**. (3 marks)

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(f). Name an organism that may infect the part labeled B and identify the disease it causes. (2 marks)

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1. The diagram below shows some types of fruits.



(a) (i). Name the type of fruit in photograph I (1 mark)

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(ii). Give a reason for your answer. (1 mark)

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(iii). State the mode of dispersal of the fruit named in (a) (i) above. Explain (2 marks)

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(b) (i). Name the type of fruit in photograph II. (1 mark)

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(ii). Give a reason for your answer. (1 mark)

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(iii). What type of placentation does the fruit have? (1 mark)

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(iv). Explain **two** adaptations of the fruit to its mode of dispersal. (2 marks)

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(c). On the diagram in photograph II label the placenta and the endocarp. (2 marks)

3. You are provided with a specimen labeled T. Study it and answer the questions that follow. Using a knife or

 scalpel make a transverse section of the specimen.

(a) (i). What plant part is specimen T? (1 mark)

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(ii). Give a reason for your answer. (1 mark)

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(b). Squeeze the juice from specimen T into the 100ml beaker provided. Using the reagents provided carry out food tests on the juice. (12 marks)

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| --- | --- | --- | --- |
| Food substance | Procedure  | Observations | Conclusions |
|  |  |  |  |
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