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**DIVINE SECONDARY SCHOOL KITALA**

**BEGINNING OF TERM TWO EXAMS 2024**

**S.1 BIOLOGY**

**NAME: ....................................................................................**

**LIN ……………………………………………………………..SIGN……………………..**

**INSRUCTIONS:**

***Attempt to answer all items in both sections A and B***

***All answers for section A must be filled in the spaces provided***

***Responses or answers for section B must be written on answer sheets or booklets provided.***

**SECTION A**

1. Just on the introduction of biology subject, some senior one learners at Divine ss kitala gained a greater interest in its Greek derivatives. One day, immediately after a morning break, the class lost control and opened up an artistic circumstance. As the front seaters say ‘’Bios”, the back ”Logos,” like a chorus of a particular song. A certain teacher approached the class. If you know the meaning of what you are singing sit. If not three, three(strokes)
2. Assume you were among the class elements, help out your fellows accordingly. (3mrks

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1. Why do you think that biology as a subject must be done by every learner in your secondary school? (5mrks

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1. What principles make biology regarded as a scientific study? (2mrks

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1. Though they can be different in certain aspects like anatomy; living things share the same life processes or characteristics. Jemimah is curious of why death is not considered as characteristics of living things or organisms.
2. What characteristics of life processes are prioritized in the scenario above? (7mrks

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1. Explain to Jemimah according to the scenario above. (1mrk)

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1. How is the biological branch and physiology similar as branches of biology? (2mrks

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1. How the biological branch hinted at in the scenario differ from physiology? (2mrks

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1. Kingdom is the largest taxonomic rank. The dialogue below is between Alex and Alisha.

Alisha: cockroach is an animal, dog is an animal and even man and pig are both animals.

Alex: I am not an animal therefore. Man and pig?!

Alisha: Noo......... not as you think, we simply base on. .......................................

1. How can you conclude Alisha’s statement as an explanation to Alex? (01mark

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1. Arrange all the taxonomic ranks in ascending order. (03marks

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1. Write the scientific or Latin names of the organisms whose genus and species are given in the table. Follow the binomial system of nomenclature. (03mark

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| --- | --- | --- |
| Local name | Species | Genus |
| Bee  Dry rock moss  Cockroach | mellifera  pulvinata  americana | apis  grimmia  periplaneta |

1. Bee. ..............................................................
2. Dry rock moss...............................................
3. Cockroach. ....................................................
4. Suggest possible application of taxonomic ranking in our daily life. (03scores

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SECTION B

1. An incomplete (not roofed) building housed a variety of plants. One day, Opolot a biology learner observed a plant shoot which had bent through the window. Because rats were also moving edge to edge, Opolot thought of plants and animals showing a pattern of locomotion. ‘’is this true?’’

Plants and animals also show a greater advancement in organization when related to other organisms.

**Task**

You let Opolot know that plants differ in away they undertake various life processes but not only that he thought of. Further more enlight him about the levels of organization after arranging them in ascending order and later base on the first level (cellular level) to compare plants and animals using possible illustrations. (25marks

1. ‘’I beg you cut one but replace with more. Deforestation is intensively degrading the environment. Forests are greatly important, so we need to conserve and preserve them. Plants in general play a vital role in water or rain cycle. Their root hair adaptation allow them to absorb water that proceeds transpiration’’

The above is part of speech of a member of biology community or club at a certain secondary school.

**Task**

As the scenario or speech part above, elaborate more about the degrading nature, importance, conservation and preservation. Further more, comment about features of root hair cells as specialized for water and mineral salt absorption. (25marks