**KAHUHO UHURU HIGH SCHOOL**

**BIOLOGY END OF TERM 1 2011 EXAMS**

**BIOLOGY PP 3**

**TIME 1 ½ Hrs**

**NAME…………………………………………..CLASS…………ADM NUMBER……………**

**Instructions**

* *Answer all questions*
* *You are required to spend the first 10 minutes of the 1 ½ hours allowed for this paper reading the whole carefully before commencing your work.*
* *Answers must be written in the spaces provided in the questions paper*
* *Additional pages must not be inserted.*
* *Candidates may be penalized for recording irrelevant information and incorrect spelling for technical terms.*

1. You are provided with specimen labeled A, B and C which is placed in a container of clean water Remove the specimen from water and examine it.

a) Using observable features only classify the specimen into the following taxa.

1. Specimen A

Class: (1mk)

…………………………………………

 Reasons:

………………………………………………………………………………………… (2 mks) ……………………………………………………………………………………………………………………

 ……………………………………………………………………………………………………………………

1. Specimen B

Class (1mk)

…………………………………………………….

 Reasons:

 ……………………………………………………………………………………………………………………

……………………………………………………………………………………………………………………………………………………………………………………………………………………………… (2mks)

1. Specimen C

 Kingdom (1mk)

…………………………………………

 Reasons:

 ……………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………(2mks)

Economic importance to man (2mks)

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b) Using external features only, state how specimen A is adapted to its functions (3mks)

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2. You are provided with solution labeled P and S.. Using the reagents Provided:-

a) Carry outs tests to determine the food substance (s) in P and S . (12 mks)

|  |  |  |  |
| --- | --- | --- | --- |
| Food substances being tested for | Procedure | Observations | Conclusions |
| STARCH( Using P) |  |  |  |
| REDUCING SUGARS( Using P) |  |  |  |
| NON REDUCING SUGARS( Using P) |  |  |  |
| VITAMINS( Using S) |  |  |  |

b) Give a reason why Hcl was used in one of the tests (1mk)

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 c) What is the nutritional importance of the food substance tested with DCPIP solution (1mk)

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3.The pictures below were taken from the human respiratory system. Use it to answer the questions that follow



k

P

a)Using arrows, indicate on the diagrams (3mks)

 i) Trachea as X

 ii)Bronchioles as Y

 iii)Position of the diaphragm as Z

b)Identify the blood vessel marked K (1mk)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

c) State two adaptations of the part lebbled P to its functions (2mks)

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d) State any three characteristics of the structure labeled B to gaseous exchange (3mks)

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e) State three diseases that affect the above organs due to (3mks)

 i) Presence of pollen grains, fur, or dust……………………………………………………………

 ii) Excessive smoking ……………………………………………………………

 iii) *Micobacterium tuberculosis* ……………………………………………………………

Good luck