Name: ………………………………………………………… ………..

**Lakeside secondary school masese**

**END OF TERM II EXAMINATIONS 2022**

**S.1 BIOLOGY**

**(THEORY)**

**1 hours 30 minutes**

**INSTRUCTIONS:**

* *Attempt* ***ALL*** *questions*
* *Make your answers* ***Brief*** *and* ***Precise****. Avoid unnecessary information*
* *All drawings must be made using a* ***Sharp Pencil***
* *Be* ***Neat*** *and* ***Organised*** *to avoid loss of marks*

**SECTION A (30 MARKS)**

**1.** The president of the Republic of Uganda has on several occasions been quoted emphasizing the relevance of scientists in the growth and development of our country; and general well-being of Ugandans at large. As a BIOLOGIST, state if each of the following statements are **TRUE** or **FALSE *(10marks)***

**(a)** Biology is the study of living and non-living things ……………………………………………………

**(b)** COVID-19 is mainly spread through air ………………………………………………………………..

* Nomenclature is a sub-set of Taxonomy ………………………………………………………………
* Microorganisms which cause diseases are all parasites …………………………………………….
* All bacteria are pathogens ………………………………………………………………………………
* Plant cells also contain Mitochondria …………………………………………………………………..
* *Mimosa pudica* belongs to the genus Pudica …………………………………………………………
* Xylem Vessels are specialized plant cells that transport manufactured food …………………….
* The cell membrane allows free entry and exit of all materials in and out of the cell ……………...
* Veins and arteries are organs …………………………………………………………………………..

**2** a).**Nakiirya Usuwah was seeking an admission in S.1 at AWTAD secondary School. She was assigned to match the pathogens in set A to their respective diseases in se B. Given that Wisdom scored full marks in the test, show how she worked out the assignment. *(Use a pencil)***

***(02 marks)***

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| --- | --- | --- |
| **SET A** |  | **SET B** |
| Malaria |  | Corona Virus |
| Measles |  | virus |
| AIDS |  | Bacteria |
| COVID-19 |  | Plasmodium |
| CassavaMosaic |  | HIV |
|  |  |
|  |  |  |

b).Outline the different ways of spreading covid19, the symptoms and prevention measures

***(06 marks)***

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c). Both plants and animals are living things, how do they differ? ***(02 marks)***

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**SECTION B: (30 MARKS)**

**3. (a) The inter-school debate competitions are set to take place in the course of this term; and the motion is already spelt out as follows:**

“BIOLOGY SHOULD BE SCRAPED OFF THE NEW LOWER SECONDARY CURRICULLUM” Given that your school stands on the opposers’ side of the debate; spell out the key points you would give as the school representative. Give examples where necessary. ***(10 marks)***

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b).During a practical session in the lab, the teacher of Biology required S.1 students to use a microscope. State any Five (5) aspects the students must follow to use a microscope. ***(05 marks)***

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**4.** In multicellular organisms; we all understand that not all cells are of the same size and shape, some cells adopt unique structural features to enable them perform particular functions effectively.

**(a)** In the space below, outline five different examples of specialized cells (any from either plants or animals or both); state the specific roles played by each in the body ***(10 marks)***

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b). Why is it necessary to classify organisms? ***(05 marks)***

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**END**