**Name: ………………………………………………………… Date: ……………………………**

**Target mark: ………………**

**Comment about the topic……………………………………………………………………………..**

**BIOLOGY SELF EVALUATION TOPICAL TEST**

TOPIC: **TRANSPORT IN PLANTS AND ANIMALS.**

**Time:** 1:30 minutes

* Attempt all questions

**Item 1. (20 scores)**

In one experiment conducted in the laboratory different sugar solutions with varying concentrations of the same volume were poured into six different test tubes. Potatoes tissues each measuring 2cm were dipped in the solutions and allowed to stand for two hours. After which the results obtained were recorded as follows.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Concentration of sugar solution in M | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 |
| Length of tissues after 2 hours in cm | 2.40 | 2.25 | 2.15 | 2.05 | 1.8 | 1.02 |
| Difference in length in cm |  |  |  |  |  |  |

1. Represent the data on a graph paper after filling the missing results on the table
2. Explain why some tissues increased and others decreased in length after the two hours
3. During the same experiment Kadudu placed a cells that were obtained from a blood sample into solution with a concentration of 0.1M. explain what happen to the cell
4. Explain how is the process taking place in the experiment of significance to plants and animals?

**Item 2**

During a PowerPoint presentation in class about transport, the video clip played unfortunately had lost its audio. The facilitator advised learners to watch and he would respond and explain what was taking place in the video. The video clip had a heading entitled. ***“the working mechanism of the heart, types of blood vessels, functions and components of blood.”***

**Task:** Describe what was watched by students using the title of the video clip to Juma who was absent that day***. (15 scores)***

**Item 3**

Misky who is hemophiliac and with blood type A accidentally gets a cut injury while peeling a fruit and she’s rushed to the hospital by the father. The doctor advises and recommends for blood donation to the Misky but discovers that the father could not help donate to Misky. With a potential blood donor found, the doctor is ready to carry out the process.

**Task:** Explain to Misky the process that failed to occur after she cut herself and the precautions the doctor will follow to transfer blood from the donor but not the father ***(15 scores)***

**END**