

Name:Stream:

LOWER SECONDARY CURRICULUM

S.1 BIOLOGY

END OF TERM TWO 2024

Time: 1hr 30 mins

Instructions; Answer all items in this paper in the spaces provided

1. Arafat, a senior one student lost a key for his suitcase one day after school visitation. His parents had just visited him and left for him with packages, among which was a loaf of *Tiptop sweet bread*. After a week, he broke the suitcase only to find his bread had grown something black and grey on it.



- a) Suggest the name of the organism that developed on Arafat's bread? (01 score)

- b) State the kingdom to which the organism named in (a) belongs and give general features of organisms belonging to the kingdom stated.

Kingdom	Features

- c) Name other two organisms that belong to the same kingdom as the organism named in (a) and suggest how they may be useful/harmful.

Organism 1.

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Organism 2.

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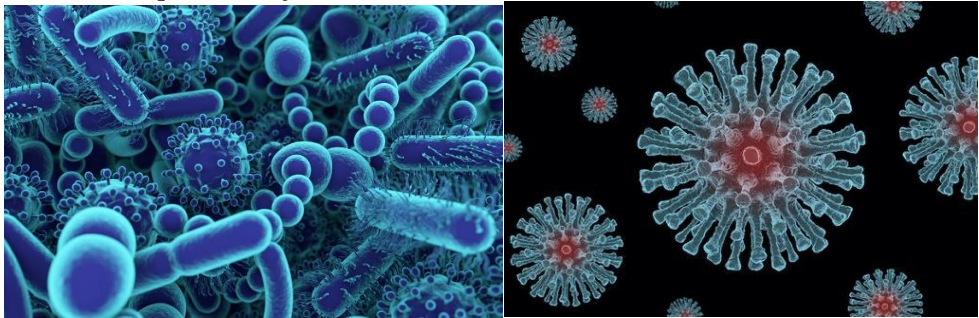
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2. Mr. Joseph was feeling general body weakness. He went to the hospital and a blood sample was taken from him and observed that his blood contained organisms that could not reproduce outside the body cells of Mr. Joseph but only when inside his cells.



a) Identify the organisms

b) The organisms identified above have both properties of living things and non-living things. State characteristics which are used to classify the organisms as

i. living-things

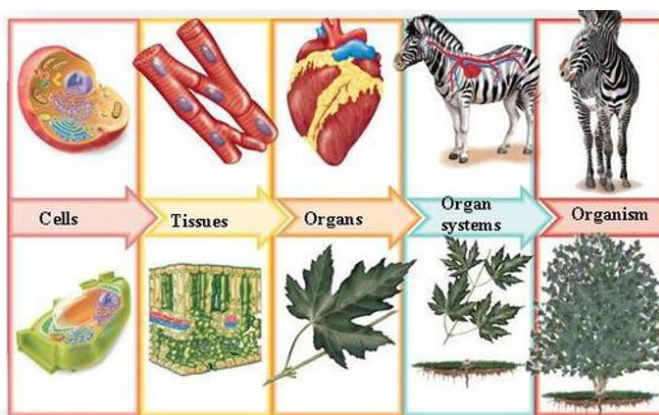
ii. Non-living-things.

c) Name any 3 diseases caused by such organisms in human beings and state how each of the above diseases is transmitted, its symptoms and prevention.

Disease	Mode of transmission	Signs and symptoms	Prevention

3. The list below shows a group of items. Study it carefully and answer the questions that follow.

<i>Erythrocytes</i>	<i>Blood</i>	<i>leucocytes</i>
<i>liver</i>	<i>lungs</i>	<i>Root hairs</i>
<i>flower</i>	<i>shoot</i>	<i>xylem</i>
<i>platelets</i>	<i>epidermal cells</i>	<i>Brain and nerves</i>



a) Identify

i. those items which belong to animals.

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ii. those items which belong to plants.

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b) which items belong to the following categories.

i. Cells

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ii. Tissue

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iii. Organ

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iv. System

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4. Kingdom Animalia and kingdom Plantae are well developed group of organisms which interdepend on each other for survival. Their bodies have certain features in common though have clear cut differences in terms of how they carry out some life process and cell structure.



- a. Suggest
- the features which are limited to plant kingdom.

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- the features which are common for both kingdoms of organisms

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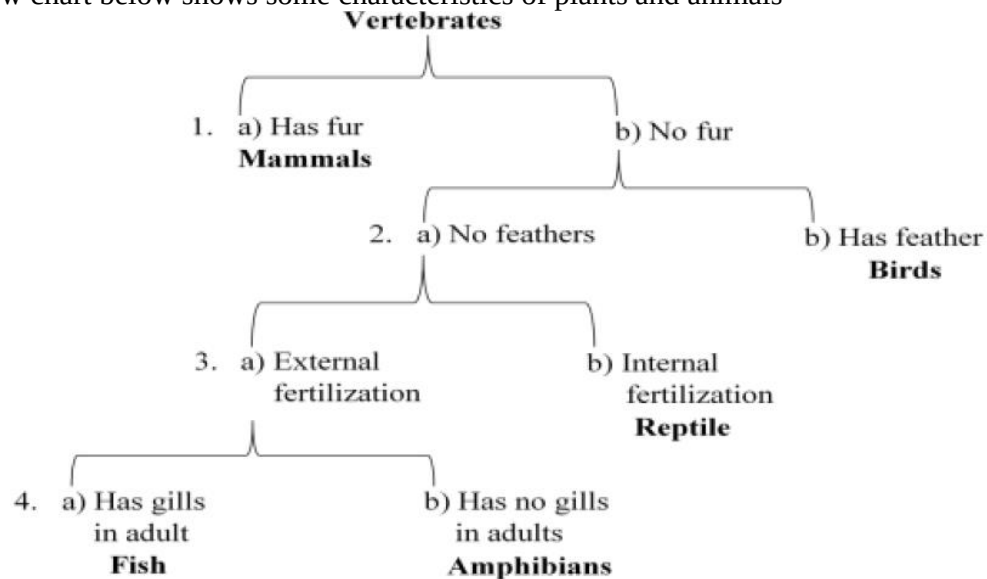
- how plants and animals interdepend on one another

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- b. The flow chart below shows some characteristics of plants and animals



- Using the flow chart above,
- state 3 features of a fish.

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- state 1 feature common to all organisms.

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- state 2 similarities between a reptile and amphibians.

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iv) construct a dichotomous key of the above chordates.

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