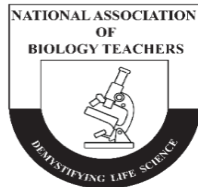


Learner's Name

Stream L.I.N.

CBC
BIOLOGY
Theory
July 2022
Senior One
2 hours



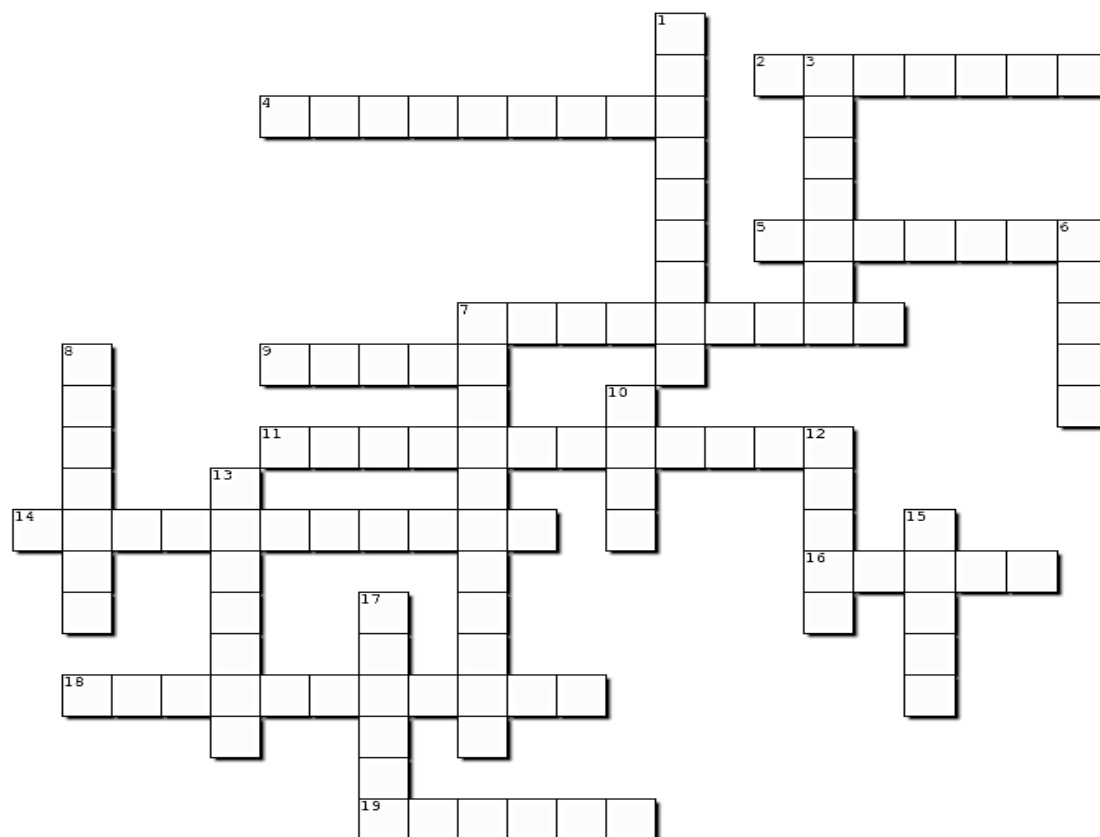
FORMATIVE ASSESSMENT TOOLS FOR THE COMPETENCE BASED CURRICULUM
BIOLOGY
Theory
Senior One
2 Hours

INSTRUCTIONS TO LEARNERS:

- Answer all questions on this paper
- Write the answers to section A in spaces provided.
- Write the answers to questions in section B on a separate answer sheet to be fastened together with this question paper.

For Teachers' Use Only			
Section	Question	Score	Examiner's Comments
A	1		
	2		
	3		
B	4		
Total	1-4		
		Identifier:	Descriptor:

1. Figure 1 shows a crossword puzzle. Fill the puzzle as guided in the clue list. Choose the correct word from the list and write it across or down in upper case (capital) letters. Do not use pencil. (20 marks)



Created using the Crossword Maker on TheTeachersCorner.net

CHITIN

CELLULOSE

CRUSTACEA

VIRUSES

MICROBIOLOGY

ZOOLOGY

YEAST

NYMPH

FEVER

CHLOROPHYLL

SPERM

NAUSEA

FLAGELLUM

EUGLENA

BONE

CATERPILLAR

ETHANOL

TISSUES

ALGAE

POLLINATION

Across

2. The product of yeast respiration used in making beer
4. A marine group of arthropods with large bodies and biting jaws
5. A flagellated protozoan showing photosynthetic feeding
7. The carbohydrate in cell walls of plants
9. The stage of metamorphosis between eggs and adults in grasshoppers and roaches
11. Study of small organisms
14. Process of transferring gametes in flowering plants
16. Male reproductive cells in animals
18. The destructive stage of a butterfly
19. The feeling of excessive desire to vomit; caused by disease

Down

1. A whip like rod used for movement in some bacteria and protozoa
3. Group of physically linked cells
6. A group of Protocistsans closely related to plants
7. A pigment for capturing light in plant cells
8. Study of animals
10. The Calcified supporting tissue in vertebrates
12. Any unicellular fungus
13. Infectious particles closely related to living things
15. A clinical condition when the body is extremely hot
17. The main component of insect exo skeletons

Figure 1 : CBC Exam; Crossword Puzzle 1

2. Read the passage below and answer questions that follow.

26-year-old Jackie Ayebale is a mother of four children, two girls and two boys. The girls aged 8 and 6 were born with HIV. Ayebale learnt from her mistake and protected the boys aged 4 and 2 years from the deadly epidemic.

She gave birth to her first born not knowing her HIV status. When Ayebale became pregnant with the second born, she went to Bukulula Health Centre IV in Kalungu District for antenatal care where the health workers tested her for HIV. Her results were positive. Ayebale was advised to start treatment to avoid transmitting the virus to her unborn baby.

Unfortunately, she refused to adhere to the doctors' advice and threw away the tablet, hence transmitting HIV to her second born. "When I tested HIV positive, it took me 4 days to tell my husband. At the health facility, I was given some blue tablets to swallow every day but I threw them away," Ayebale, who is a farmer in Kyanagolo village explained.

She regretted her action and accepted the situation. Ayebale is now a champion of Elimination of Mother to Child HIV Transmission (eMTCT) in Kalungu and Masaka Districts. Her husband is HIV negative making them a discordant couple.

Upon agreeing to take antiretroviral virus drugs, Ayebale was able to conceive again, producing HIV negative babies. The smiling Ayebale is full of praises of the eMTCT services and very thankful to the health workers at Bukulula Health Centre who have been helpful and supportive.

Adapted from; <https://www.unicef.org/uganda/stories/26-year-old-hiv-positive-mother-learns-her-mistake-save-future-children-hiv>.

Questions

From the passage;

- a. How did Ayebale know that she is infected with HIV? (2 marks)

.....

.....

- b. Why is it necessary for pregnant mothers to test for HIV? (2 marks)

.....

.....

- c. Which government program do you realize is helping in preventing HIV infections? (2 marks)

.....

.....

- d. What do you understand by the term **discordant** couple? (2 marks)

.....

.....

e. Which advise do you give to mothers who are at risk of transmitting HIV to their babies?

(3 marks)

.....

.....

.....

.....

f. Ayebale’s children are studying in a school like yours. How best can you live with these HIV positive students?

(5 marks)

.....

.....

.....

.....

.....

g. Suggest any effects of HIV to the;

i. Individual

(2 marks)

.....

.....

ii. Community

(2 marks)

.....

.....

.....

3. Figure 2 shows a plant cell. Study it carefully and use it to answer questions that follow.

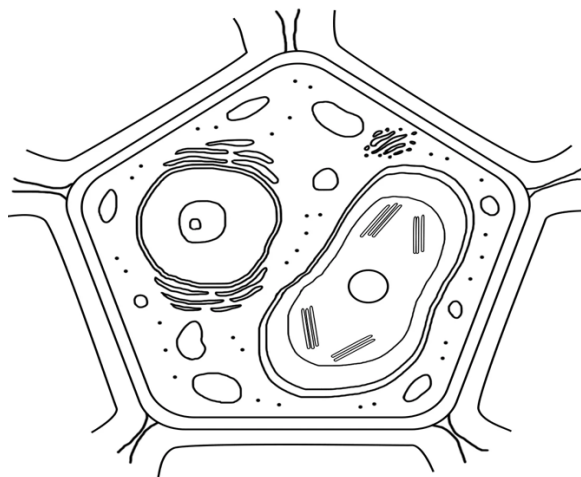


Figure 2 : Diagram of a plant cell

a. On the diagram, label and name the following parts. (5 marks)

- i. Cell wall
- ii. Sap Vacuole
- iii. Nucleus
- iv. Chloroplast
- v. Starch grain

b. In the table below, match the parts of the cell to their correct functions in the cell. (5 marks)

Part of the cell	Function
Cell wall	Controls all cell activity
Sap vacuole	Stores water and dissolved solutes
Chloroplast	Provides support to the cell.
Nucleus	Stores food made by photosynthesis
Starch grain	The exact site for photosynthesis

c. Figure 3 shows the structure of the animal cell as seen under the microscope.

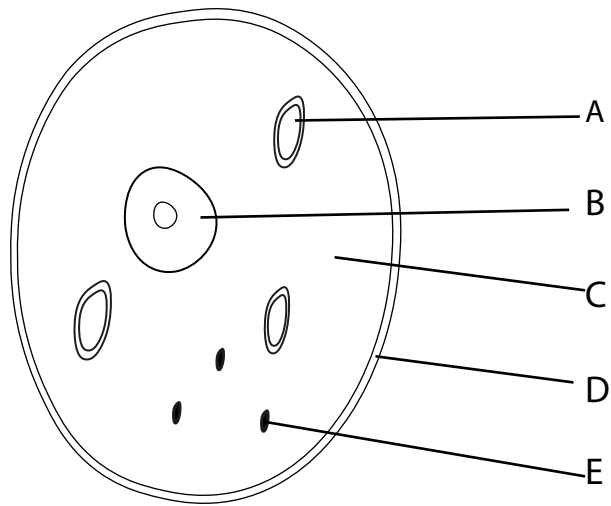


Figure 3: Diagram of an animal cell

i. Name parts labelled A to E (5 marks)

- A
- B.....
- C.
- D
- E

iii. How are the cells in figure 2 and 3 different? (5 marks)

Cell in figure 2	Cell in figure 3

4. Figure 4 shows a collection of living things. Study the figure carefully and use it to answer the questions that follow.

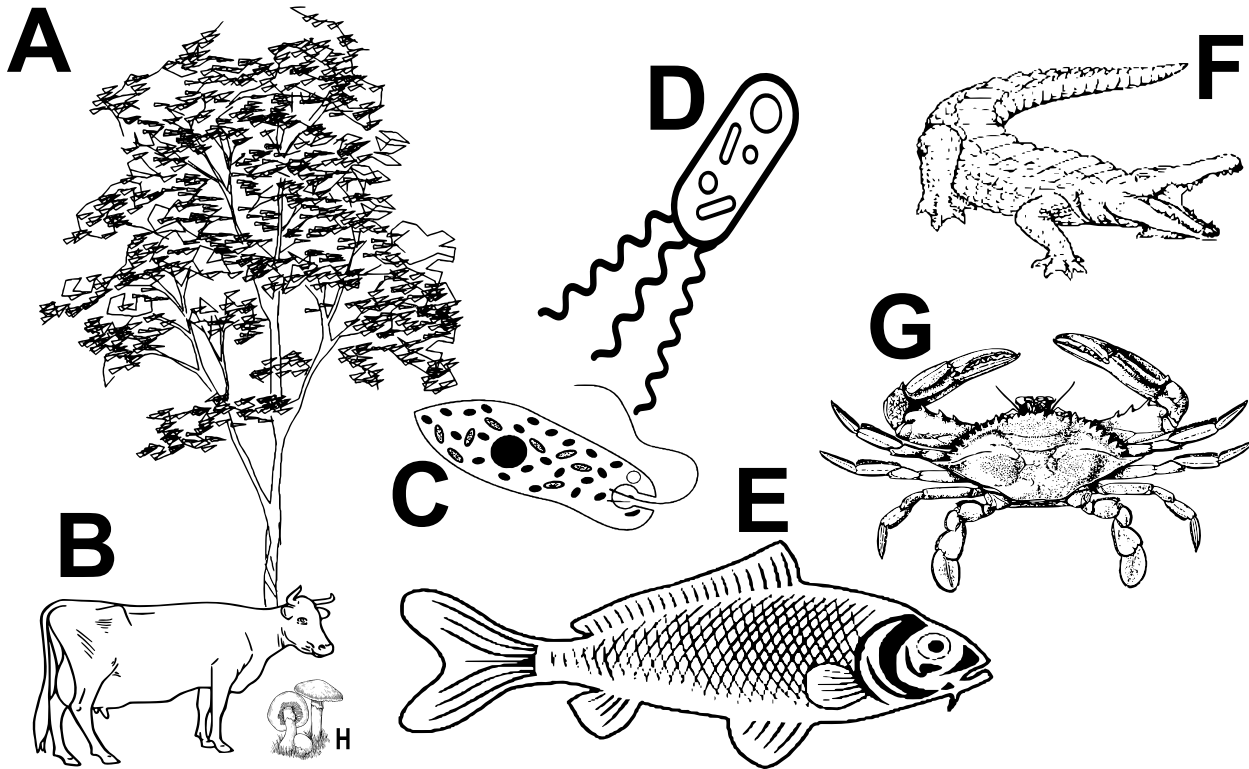


Figure 4: Collection of living things

a. Suggest the kingdom of living things represented by the organisms in the letter;

- A.
- B.
- C.
- D.
- E.
- F.
- G.
- H.

(8 marks)

b. Name the class of vertebrates represented by;

- B.....
- E.....
- F.....

(3 marks)

c. Organisms D, C and H; are studied in a branch of biology called Microbiology. Suggest the name of the branch of microbiology in which we study organisms like;

(3 marks)

- D
- C
- H

d. Organism A represents the most common subphylum of its kingdom.

i. Suggest a mode of propagation for this group of organisms. (1mark)

.....

ii. Name two prominent phyla of the sub-phylum you have mentioned in (d)(i) above. (2 marks)

.....

.....

e. Suggest the economic importance of organisms like D and H in nature. (3 marks)

D.....

.....

H.....

.....

END