



GREENLAWNS HIGH SCHOOL
TERMINAL EXAMINATION YEAR 2017-2018

SUBJECT : BIOLOGY
TIME : 1 ½ HOURS

CLASS : VIII
MARKS : 80

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All answers must be written in the answer booklet provided to you. All questions of Section A and B are compulsory.
Be neat in your work.

SECTION A

I A Name the following (not an example) (10)

1. A net work of several inter-connecting food chains.
2. Male reproductive whorl of the flower.
3. A ripened ovary.
4. The plants naturally occurring in a particular area.
5. A flower bearing only the female reproductive part.
6. A genetic disease in which the blood clotting takes place very very slowly.
7. Artificial way of achieving protection from infectious diseases by the use of vaccines.
8. The total living matter of a living cell.
9. Bean shaped plant cell.
10. The main conducting part of phloem made up of elongated cylindrical cells arranged in vertical rows.

B Differentiate between the following on the basis of what is given in brackets. (5)

1. Phloem and xylem (conduction of)
2. Dahlia and maize (size of flowers)
3. Malaria and diphtheria (caused by)
4. Cell wall and cell membrane(made up of)
5. Carnivores and detrivores (food consumed)

C Pick the odd one out. Give reasons for your answers. (5)

1. Ginger, potato, bryophyllum, onion
2. Vultures, kites, crows, fungi
3. Cholera, measles, mumps, jaundice
4. Nucleolus, vacuole, nucleoplasm, chromosome
5. AIDS, cancer, coronary thrombosis, cyanide poisoning

D Match the following:- (5)

COLUMN A

1. Vitamin B₃
2. Vitamin C
3. Vitamin A
4. Vitamin D
5. Vitamin B₁

COLUMN B

- a. night blindness
- b. beri-beri
- c. rickets
- d. pellagra
- e. scurvy
- f. goitre

E Give scientific reasons for the following:- (5)

1. Wind pollinated flowers have long protruding anthers.

2. Hair should be regularly washed.
3. Tissue culture is very useful in cases where seeds are dormant.
4. A food chain always starts with green plants.
5. Plants produce fruits and not just seeds.

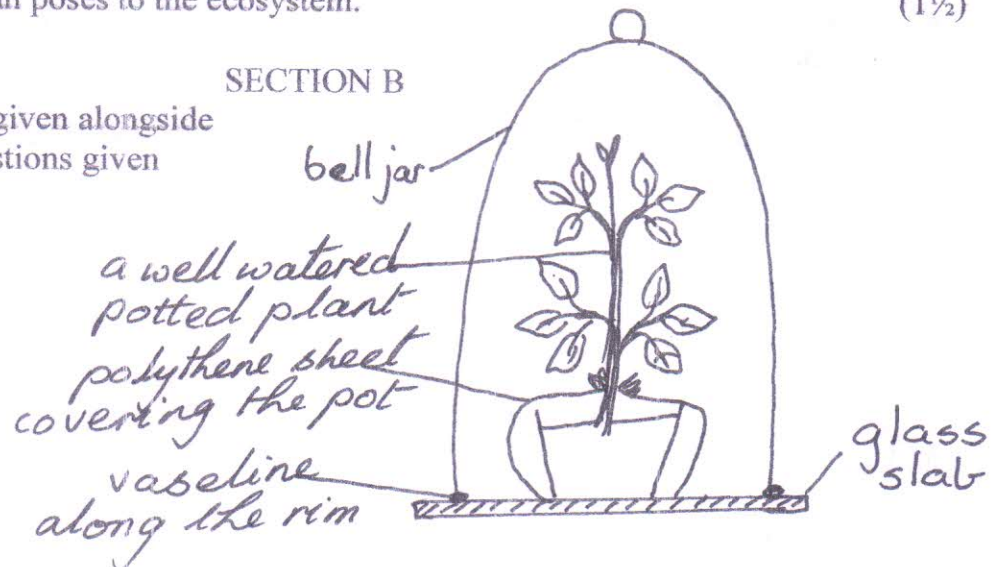
F State whether true or false. If false correct the statement by changing only the underlined word. (5)

1. Chlamydomonas reproduces by binary fission.
2. The ascent of cell sap is through phloem.
3. Taeniasis is caused by eating improperly cooked pork or beef.
4. Prokaryotic cells have a well defined nucleus.
5. Pine trees are a part of the coniferous ecosystem.

G

1. Define food chain. (1)
2. Give a food chain of five trophic levels. (2 ½)
3. State any 3 risks man poses to the ecosystem. (1½)

II A Observe the figure given alongside and answer the questions given below.

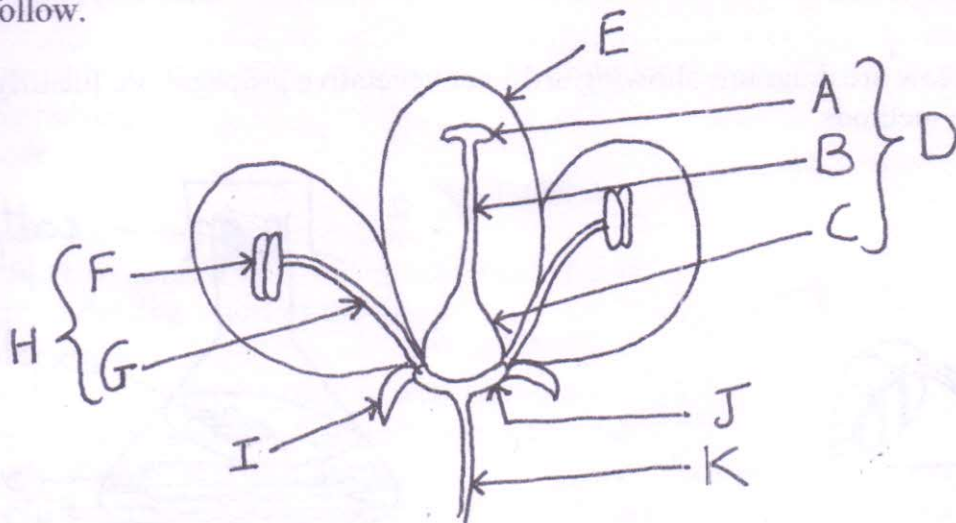


1. What changes would you observe after a few hours? (1)
2. Why is the pot covered with a polythene sheet? (1)
3. What do you conclude from the above experiment? (1)
4. Name the process and state how it helps the plant? (3)
5. State the four main factors that affect this process? (2)

B Fill in the blanks:- (2)

_____ is the movement of water molecules from higher concentration to a lower concentration through a semi permeable membrane but _____ does not require a semi permeable membrane.

III A Given below is a diagram of a flower. Observe it carefully and answer the questions that follow.

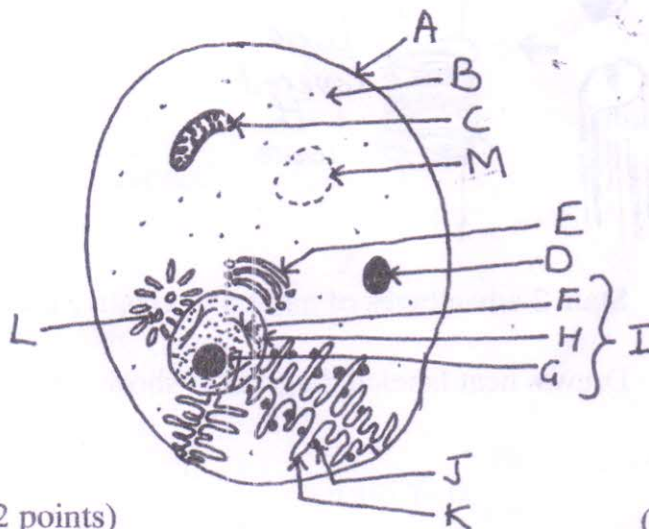


1. Name the parts marked D, H, J and K. (2)
2. What does C contain and what do they turn into after fertilization? (1)
3. What are the functions of parts E and I. (2)

B Given below is a box of jumbled words. Write the correct pairs. One word is extra. (5)

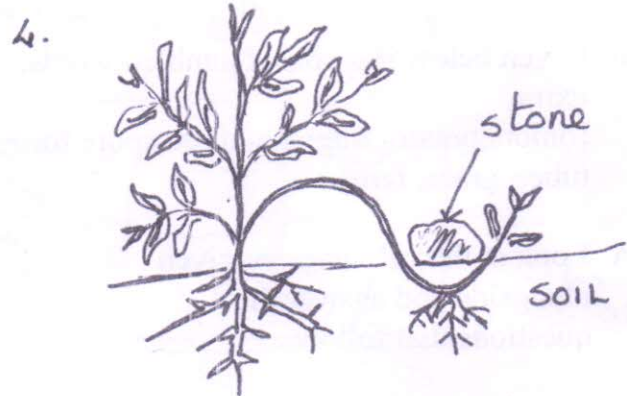
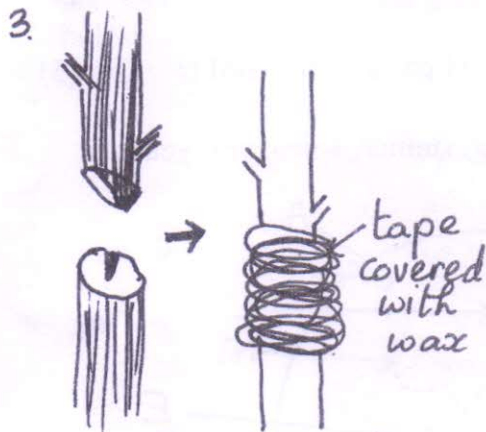
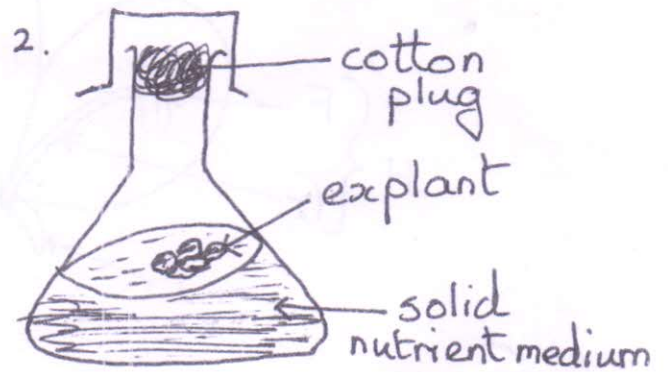
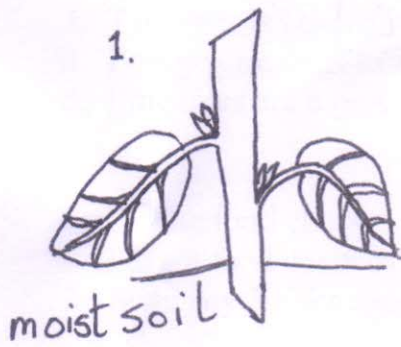
[onion, potato, fragmentation, spore formation, budding, runner, spirogyra, yeast, tuber, grass, fern]

IV A Look at the cell diagram given alongside and answer the questions that follow.



1. Identify the given cell. Give reasons (2 points) (2)
 2. Under what microscope is it being viewed. Justify (2 points) (1 1/2)
 3. Identify using given letter/alphabet an organelle known as (2)
 - a. protein synthesizer
 - b. power house of the cell
 - c. brain of the cell
 - d. suicide bag of the cell
 4. How many pairs of 'F' are present in a human body cell. (1/2)
 5. What are the functions of M. (1)
- B. State the CELL THEORY. (3)

V A Given below are diagrams showing artificial vegetative propagation. Identify and name the methods. (4)



B State 2 advantages of natural vegetative propagation (reproduction). (2)

C Draw a neat labeled diagram to show reproduction in bacteria. (4)