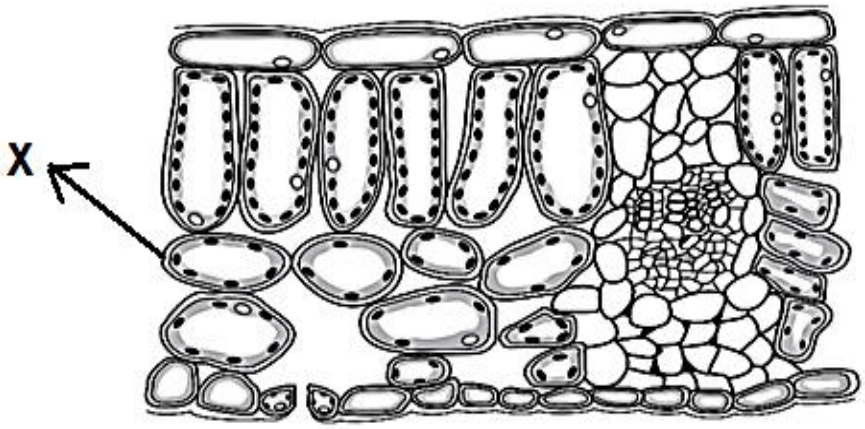
FORM THREE BIOLOGY ASSIGNMENT ONE



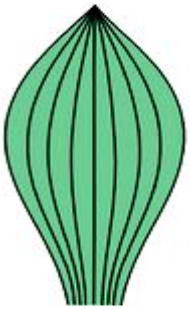
Name: …… Class: …… ID.No……

Assignment Deadline: 03-09-018

Part One: Multiple Choice Questions

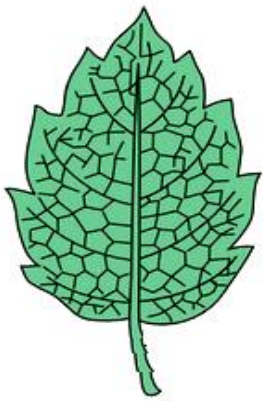
Instruction: Answer all questions in this section. For each question in this section, circle the correct answer

1) Flowering plants are also known as
    A. Mosses
    B. Gymnosperms
    C. Ferns
    D. Angiosperms
2) The type of plants that produce naked seeds are known as
    A. Pteridophyta
    B. Angiosperms
    C. Gymnosperms
    D. Bryophyta
3) Which portion of the flowering plant *anchors* the plant in the soil?
    A. Shoot system
    B. Stem
    C. Root system
    D. Leaves
4) The large broad surface of the leaf is known as
    A. Leaf margins
    B. Petiole
    C. Midrib
    D. Lamina
5) The below leaf structure is about a monocot leaf morphology.



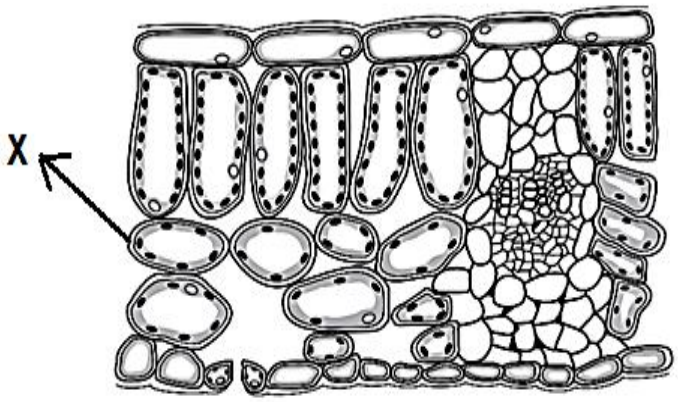
Monocot leaves have
    A. Network veins
    B. Parallel veins
    C. Scattered veins
    D. Uniform veins

6) The edges of the leaf is commonly known as
   A. Leaf apex
   B. Leaf tip
   C. Leaf margin
   D. Leaf margins
7) The below diagram is about a dicot leaf



Dicot leaves have
   A. Network veins
   B. Parallel veins
   C. Scattered veins
   D. Uniform veins
8) The waxy waterproof layer found on the top of the leaf epidermis is called
   A. Chitin
   B. Cuticle
   C. Cork
   D. Cambium
9) What do we call the continuation of the leaf stalk into the leaf blade?
   A. Lamina
   B. Midrib
   C. Veins
   D. Petiole

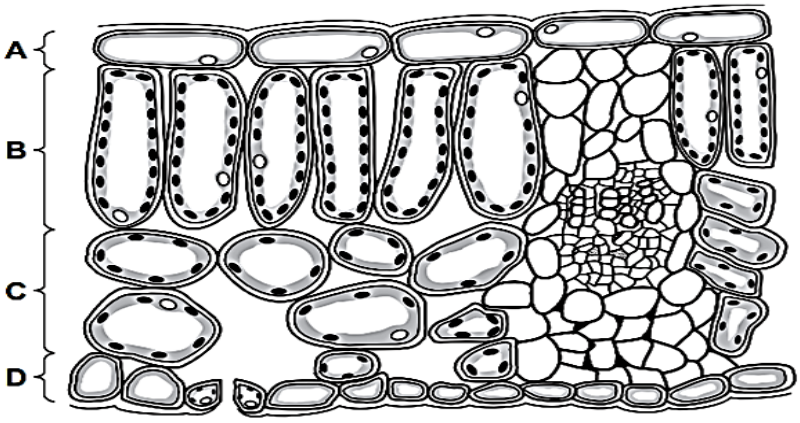
10) The following diagram shows the arrangement of cells in the leaf of a green plant.



What is known as cell **X?**

A. Upper epidermis
B. Palisade cells
C. Cuticle
D. Spongy cells

11) The diagram shows the arrangement of cells in the leaf of a green plant. In which region do the cells contain the greatest number of chloroplasts?



12) In which of these plant leaf cells is the maximum rate of photosynthesis expected to occur?

A. Epidermal cells
B. Palisade cells
C. Xylem cell
D. Spongy cells

13) Where on a leaf will you mainly found the stomata?
   A. Along the ribs of the leaf.
   B. On the edge of the leaf.
   C. On the underside of the leaf
   D. On the top surface of the leaf

14) The stomata are always close when
   A. Potassium ions and water move into the guard cells
   B. Potassium ions move out but water moves into the guard cells
   C. Potassium ions and water move out of the guard cells
   D. Potassium ions move into but water moves out of the guard cells

15) The below diagram is about stoma that is open during the day time.

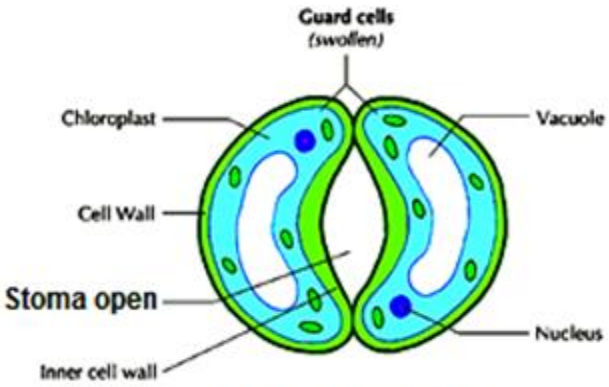
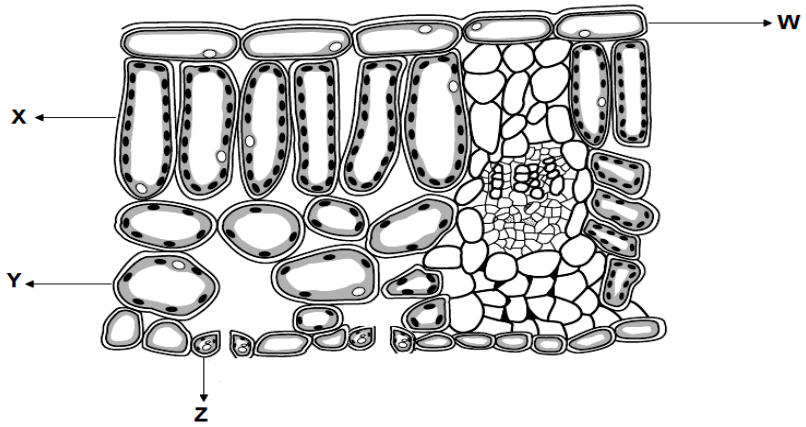


Figure: Stoma open

Stomata are always open whenever the guard cells are
   A. Flaccid
   B. Shrunken
   C. Turgid
   D. Lysed

16) Stomata allow land plants to carry out
   A. Reproduction
   B. Osmosis
   C. Gas exchange
   D. Mitosis

17) The below diagram shows a section through a leaf, which labeled structure contains NO chloroplast?



A. **Z**
B. **W**
C. **Y**
D. **X**

SHOW YOUR ANSWER IN THE BELOW BOX

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Part Two: Structured Questions

Instruction: Answer all the below questions in the space provided

Question One:

Vascular plants are divided into two plant subgroups, namely angiosperms and gymnosperms.

a) Describe any two differences between angiosperms and gymnosperms?

Angiosperms	**Gymnosperms**

b) According to plant seed structure, angiosperms are divided into two main plant groups; what are they?

……
……
……..

c) State any difference between vascular and non-vascular plants?

……
……
……

Question Two:

Plant body structure is divided into two main systems; shoot system and root system.

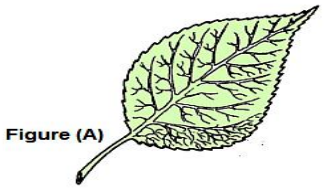
a. List any three functions of
   i. Shoot system?

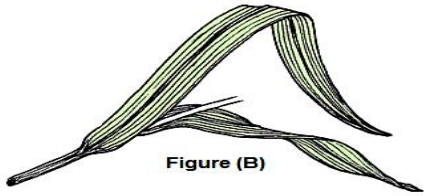
   ……
   ……
   ……
   ii. Root system?

   ……
   ……
   ……

Question Three:

The below diagrams are about two types of leaf structures.





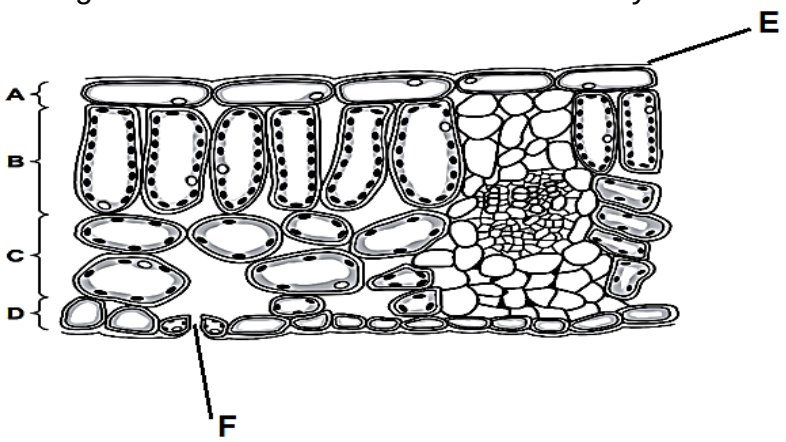
a. Name the above leaf structures in figure (A) and figure (B)?
.....

b. Which two plants contain the above two leaf structures?
.....
.....

c. Distinguish between the structural differences between the above leaf structures?
.....
.....

Question Four:

The diagram shows a section for a leaf anatomy.



a) Name the labeled structures of the leaf anatomy from (**A** to **F**)?
A: …… **B:** …… **C:** ……
D: …… **E:** ……**D:** ……

b) Which of the structures labeled on the above leaf diagram
   i. Is where most photosynthesis takes place?
   .....
   ii. Forms a waterproof layer to the leaf?
   .....
   iii. Controls the entry of carbon dioxide into the leaf?
   .....