


Course No: PHSC 1312  
Course Title: Pharmaceutical Botany  
Date: 24/03/2015  
No. of Questions: (2)  
Time: 1 hours  
Using Calculator (No)

University of Palestine  
  
Middle Exam 2014/2015  
Total Grade:  
20/


Instructor Name: Dr. Akram Atalla  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: Pharmacy College  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

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**Q A : Choose the correct answer : - (1 point to each one)**

1. Which tissue transports nutrients down from the leaves to the rest of the plant
  - A. Meristem
  - B. Cambium
  - C. Xylem
  - D. Phloem
  
2. What is/are the function(s) of a leaf?
  - A. Photosynthesis
  - B. Water uptake
  - C. Transporting nutrients
  - D. All of the above
  
3. Which part of the plant allows it to reproduce
  - A. Flower
  - B. Stem
  - C. Seeds
  - D. Roots
  
4. Which structure is considered the male reproductive part of a flowering Plant?
  - A. Stamen
  - B. Petal
  - C. Carpel
  - D. Sepal

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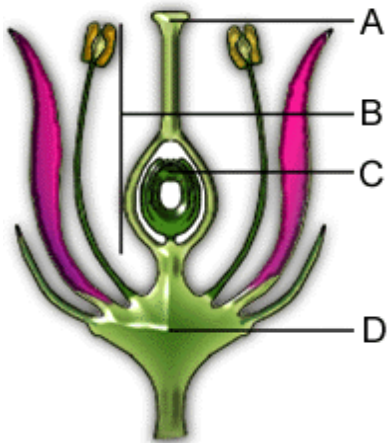
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- 
5. Casparian strips are present in the \_\_\_\_\_ of the root.
- A. Epiblema
  - B. Endodermis
  - C. Roots
  - D. Stem
6. The plant kingdom is divided into groups called \_\_\_\_\_.
- A. Genuses
  - B. Divisions
  - C. Sections
  - D. Species
7. What am I? I am vascular and reproduce by seeds in cones.\
- A. Gymnosperm
  - B. Conifer
  - C. flowering plant
8. What is a sieve-tube element?
- A. The sugar-conducting cell found in phloem
  - B. The widened, perforation-containing, water-conducting cell found only in angiosperm
  - C. The nutrient-and water-absorbing cell found in root hairs
  - D. The nucleated and organelle-rich support cell found in phloem



9. Please fill in the table next to the image of a cross section through a flower correctly i.e. if you think that the ovule is B on the image then tick the circle in column B etc.



	A	B	C	D
stigma				
receptacle				
stamen				
ovule				

10. Xylem cells carry water containing dissolved minerals upward in the plant.

- A) True
- B) False

11. Angiosperms are the most advanced plant group.

- A) True
- B) False

**Q B : Answer the questions :- (1 point to each one)**

1. Name the three parts of the pistil?

\_\_\_\_\_

\_\_\_\_\_


\_\_\_\_\_

2. List the two main types of plants.

A. \_\_\_\_\_

B. \_\_\_\_\_

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3. Trees can be killed by girdling—meaning the removal of bark and vascular cambium in a ring all the way around the tree.

Explain why?

4. Are the xylem and the phloem made of living cells?

5. What are cytokinins? Where are they made?

6. What are plant tropisms?

7. What are the forces that make water to flow within the xylem from the roots to the leaves?

8. How different are animal cells from plant cells?

9. What is the leaf cuticle? What is their function?

10. A shoot grows up and towards the light which is called positive \_\_\_\_\_

11. What are the active constituents in herbal medicines?