

Course No: PHSC 1312
Course Title: Pharmaceutical Botany
Date: 31/05/2015
No. of Questions: (4)
Time: 2 hours
Using Calculator (No)

University of Palestine



Final Exam
2014/2015
Total Grade:

Instructor Name: Dr. Akram Atallah
Student No.: _____
Student Name: _____
College Name: Collage of Pharmacy
Dep. / Specialist: _____
Using Dictionary (No)

1 Q1: chose the correct answer : - (One Point for each Question)

1. What are the unstable, highly reactive compounds that damage lipids, protein, and DNA in our cells?
 - a. Free Radicals
 - b. Functional foods
 - c. Phytochemicals
 - d. Antioxidants

2. What phytochemical category would garlic, leeks, and onions be classified?
 - a. Sulfur compounds
 - b. Carotenoids
 - c. Phytoestrogens
 - d. Flavonoids

3. What is a common name for *Allium sativum*?
 - a. Gobo root
 - b. Beggar's treacle
 - c. Poor man's buttons
 - d. Garlic

4. Liquorice contains which of these active constituents?
 - a. Inulin
 - b. Molybdenum
 - c. Flavonoids
 - d. Saponins

5. Which active constituents have studies isolated in Onions, tomatoes that can be used as antioxidants?
 - a. Isoflavones
 - b. Terpenoids
 - c. Iridoid glycosides
 - b. Flavonoid

6. Which of the following vitamins enhances the anticancer effect of garlic?
 - a. Vitamin C
 - b. Vitamin D
 - c. Vitamin A
 - d. Vitamin K

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7. Weeds which continually produce growth for an indefinite number of years is called
 - a. indefinite
 - b. perennial
 - c. long-lasting
 - d. persistent

8. The scientific name of an organism is composed of its:
 - a. family name
 - b. genus and species name
 - c. common name
 - d. subgenus name

9. What organization is responsible for ensuring that all Drugs are safe and properly labeled?
 - a. WHO
 - b. NIH
 - c. CDC
 - d. FDA

10. Choose the male reproductive structure of a flower.
 - a. receptacle
 - b. stamen
 - c. spore
 - d. pisti

11. The process by which plants move water through their systems and cool themselves is called?
 - a. Espiration
 - b. Perspiration
 - c. Transpiration
 - d. Aquafication

12. Stomata are part of this tissue.
 - a. spongy mesophyll
 - b. palisade mesophyll
 - c. vascular bundles
 - d. epidermis
 - e. phloem parenchyma

13. What is a common Arabic name for *Opuntia ficus-indica*?
 - a. Alteen alshowki
 - b. Aldefla
 - c. Rejel Alhamama
 - d. رغل ملحي

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14. Throughout the world, official species names are in

- a. Latin
- b. Greek
- c. English
- d. French
- e. the native language

15. To what family does this plant belong?

- a. Oleaceae
- b. Cupressaceae
- c. Solanaceae
- d. Amaranthaceae
- e. Umbelliferae



16. To what family does this plant belong?

- a. Oleaceae
- b. Cupressaceae
- c. Chenopodiaceae
- d. Amaranthaceae
- e. Fabiacea



17. To what family does this plant belong?

- a. Oleaceae
- b. Cupressaceae
- c. Solanaceae
- d. Amaranthaceae
- e. Portulacaceae



18. Which **tissue** is involved in the transport of water in plants?

- a. Epidermis
- b. Root hair
- c. Xylem
- d. Phloem
- e. Ground tissue



19. This is a *Cichorium endivia*,

- a. True
- b. False



20. Roots are important to plants for which reasons? -> Performing photosynthesis

- a. True
- b. False

21. What are the male floral parts called? -> Stamens

- a. True
- b. False

Q2: Complete the following question : -

1. To what family does this plant belong?-----



2. To what family does this plant belong?-----



3. To what family does this plant belong?-----



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4. -----waxy substance found on plant surfaces that functions as a barrier to water and pests.
5. Plant essential oils contain volatile compounds known as _____ that are responsible for plant aromas.
6. What important drug is foxglove the source of?
7. What part of *Ficus carica* is used? And what are the medicinal Uses?
8. What part of ginger is used?
9. What are the medicinal Uses of *Echinacea purpurea*?
10. What is the scientific name of Ginseng and describe the Traditional and modern uses?
11. What are the five main groups of plant hormones?
12. How do you get different Monoterpenes from the Sesquiterpenes ?
13. Name 3 herbs that boost the immune system?
 - a.-----
 - b.-----
 - c.-----
14. When fresh garlic is chopped or crushed, the enzyme ----- converts ----- into -----, which is responsible for the aroma of fresh garlic.

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15. Two immuno-stimulatory polysaccharides ----- and -----

were isolated from the aerial parts of *E.purpurea*.

16. What is the name of the chemical that gives peppers the heat?

17. Why do people take ginkgo?

18. What are the medicinal uses of Resins?

19. Name the most common functional groups found in phytomolecules?

Bonus Questions:

1. What part of the *Ricinus communis* is used for laxative, hair loss and skin diseases ?

2. What is a common name for *Echinacea angustifolia*?

End of Questions

Good Luck