

Course No:
Course Title: **Pharmaceutical Botany**
Date: 8/6/2017
No. of Questions: (5)
Time: 2hours
Using Calculator (No)

University of Palestine



Final Exam
2016/2017
Total Grade:50

Instructor Name: **Ayman Dardona**
Student No.: _____
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Using Dictionary (No)

Question One: (7.5 Marks)

Put (T) for the Correct answer and (F) for the wrong one :Justify your answer

1- Movement of plant toward light is called tropism

().

2- Latex is one key identification for the Brassicaceae

().

3- Lycopene is responsible for the pigments in cherry tomato

().

4- Mustard oil exist in the cruciferous vegetables

().

5- Menthol is diterpene

().

6- The resins comes from Cypressaceae family is known as rosin

().

7- Most Orchidaceae are epiphytes

().

8- *Vanilla planifolia* is a parasitic plant

().

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9- Iridoid glycosides are derived from plants such as *Coffea arabica*

().

10- Ephedrine is common polyphenoles in *Ephedera sp*

().

11- The drug Fructus Salicis contains salicin glycoside

().

12- Resins are liquid substances secreted by plants into special ducts

().

13- *Nigella sativa* contains fatty acids like arginine

().

14- Semen Cardomomi is extracted from the seeds of dicot plant

().

15- *Equistum* is vascular plant

().

16- Rizoma Zingiberis contains monoterpens such as zingiberene

().

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Question Two(7.5Marks)

A-Justify:(2.5 marks)

- 1- Using *Hibiscus Sabdariffa* in lowering blood pressure ?

- 2- Using *Ceratonia siliqua* in the extraction of sugar ?

- 3- The strong odour of *Allium sativa* when slicing in air ?

- 4- The ability to surface tension in Saponins compound ?

- 5- Using *Althaea officinalis* as laxative ?

- 6- *Urtica dioica* is used in the treatment of Rheumatism?

B- Complete the table:(5 Marks)

Scientific name	Plant habit	Drug name	Pharmacon	One uses
<i>Salix alba</i>				
		Herba Ephedra		
		OleumThymi		
<i>Coffea arabica</i>				
<i>Cannabis sativa</i>				
<i>Zingiber officinalis</i>				

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Question Three(11 Marks)

A-Complete :(4 marks)

- 1- *Allium sativa* contains many sulfur compounds such as
1.....2.....3.....
- 2- Brassica plants are identified through
1.....2.....3.....
- 3- Examples of representative alkaloids are
1.....2.....3.....
- 4- Plants are classified according to leaves into
1.....2.....3.....
- 5- Mucilage in Semen fenugreek yields on hydrolysis
1.....2.....
- 6- *Triticum sativum* contains the enzymes
1.....2.....

B-Answer the following questions :(7marks)

- 1- Specify the meaning of plant species :

a-*Mentha longifolia*

b-*Salvia officinalis*

c-*Papaveris somnifera*

- 2- Explain the nomenclature of these drugs

a- Stigmata Croci

b- Oleum Caryophyllii

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c- Cortex Granati

- 3- Why Raunkiaer's classification is useful in studying plants?
- 4- Write the name of two drugs in *Rosa damascena*?
- 5- Write two pharmacological effects of *Ruta graveolens*?
- 6- Write one Clinical effect of Semen Fenugreek_?
- 7- Write one Clinical effect of Herba Cannabis_?
- 8- Menthol is used widely in the Pharmaceutical preparations ,Mention only one?
- 9- Write one key feature for Fabaceae?
- 10- The uses of bitter principles?
- 11- Mention one uses for *Capsicum minimum* in the Pharmaceutical products ?

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Question Four:(13Marks)

A-Circle the correct answer a, b ,or c (10 marks)

- 1- Alkaloids occur in a solid form
a-Lobeline
b-Atropine
c-Nicotine

- 2- One of these plant family has no latex
a-Euphorbiaceae
b-Urticaceae
c-Moraceae

- 3- Example of eight units of isoprene
a-Carotenoid pigment
b-Sterols
c-Volatile oils

- 4- *Nigella sativa* contains high proportion of fixed oil mainly
a-Caffeic
b-Lipoic
c-Linoleic

- 5- Volatile oils of almond tree contains
a-Cardiac glycoside
b-Glycosides
c-Cynogenic glycoside

- 6- These C15 compounds occur mainly as ingredients of essential oils or as lactones
a-Diterpenes
b-Sesquiterpenes
c-Monoterpenes

- 7- A group of Plant family resembles one to another in morphological characters
a-Order
b-Division
c-Class

- 8- Do not have flowers and produce seeds not enclosed in an ovary
a-Phanerogams
b-Conifers
c- Angiosperms

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-
- 9- Grasses, sedges, and orchids are
a-Dicotyledons
b-Gymnosperms
c-Monocots
- 10- Bulbs, corms, and rhizomes are within
a-Therophytes
b-Geophytes
c-Phanerophytes
- 11- *Aloe vera* belongs to which family
a-Asphoedaceae
b-Orchidaceae
c-Iridaceae
- 12- Which is not correct about Oleaceae
a-Trees or vines
b-Leaves opposite
c-Have latex
- 13- Common orange tree belongs to which family
a-Rubiaceae
b-Rutaceae
c-Rosaceae
- 14- The cones of the cypress tree are rich of
a-Tannen
b-Mucilage
c-Volatile oil
- 15- Artemisinin is example for
a-Hemiterpenoids
b-Monoterpene
c-Sesquiterpenes
- 16- All these bioactive substances contained nitrogen based hetrocyclic ring within their molecules except of
a- Digitoxin
b-Atropine
c-Morphine

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17- Folium Laurii drug contains

- a- Fixed oils
- b- Both a and c
- c- Volatile oils

18- Fructus Coridandri drug contains the bioactive substance

- a- Myrcene
- b- Linalol
- c- Myristicin

19- Active ingredient in *Foeniculum vulgare* is

- a- Capsaicin
- b- Anethol
- c- Camphene

20- The pungency of ginger is due to

- a- Gingerol
- b- Borneol
- c- Zingiberene

21- All refer to bioactive substance except

- a- Pharmacon
- b- Thymol
- c- Metabolism

B-Write only one medicinal uses :(3 marks)

- 1- *Acacia senegal*
- 2- *Ginkgo biloba*.....
- 3- *Marrubium vulgare*
- 4- Lupinine.....
- 5- *Cichorium endivia*.....
- 6- *Asparagus horridus*.....

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Question Five:(12 Marks)

A-Define only 6 of the following concepts : (6 marks)

- 1- Active ingredient.
- 2- Plant Family.
- 3- Lichens.
- 4- Terpenoids.
- 5- Pharmacopiea.
- 6- Pharmacognosy.
- 7- Flora.
- 8- Balsams.
- 9- Herbal products.
- 10- Aflatoxin.

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B-Write short notes on three only :(6 marks)

1- The importance of Pharmaceutical botany to you as a pharmacist?

2- Orchids.

3- Saponins.

4- Digitoxin.

End