

Course No: NUR 3213  
Course Title: Medicinal Plants  
Date: 01/01/2018  
No. of Questions: (3)  
Time: 2 hours  
Using Calculator (No)

University of Palestine



Final Exam  
2017/2018  
Total Grade:50

Instructor Name: Ayman Dardona  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: Pharmacy  
Dep. / Specialist: Nutrition  
Using Dictionary (No)

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**Question One :( 20 Marks).**

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**A-Circle the best two answers a, b, c or d :-( 15 Marks).**

**1- Plants able to soluble fat molecules in the digestive tract**

- a- Contain Saponin
- b- Within bitter herbs
- c- Contain volatile oils
- d- Contain tannins

**2- Proanthocyanidins are**

- a- Condensed Tannins
- b- Polyphenols.
- c- Tannins
- d- Phytosterols

**3- Glucosamine-vegetarian derived corn**

- a- Lowers blood pressure
- b- Has high side effects
- c- Used for joint diseases
- d- exist as a sulfate

**4- The main active principles in the ginkgo are**

- a- Gingerol
- b- Lactones
- c- Ginsenosides
- d- Bilobalides

**5- The main alkaloids in *Nicotina glauca***

- a- Atropine
- b- Manool
- c- Anabasine
- d- Nicotine

**6- Used to treat cognitive impairment**

- a- *Fucus vesiculosus*
- b- *Allium cepa*
- c- *Panax ginseng*
- d- *Ginkgo biloba*

**7- *Fucus vesiculosus* belongs to**

- a- Cryptogams
- b- Thallophyta
- c- Phanerogams
- d- Gymnosperms

**8- The properties of garlic come from the natural substances such as**

- a- Ajoene
- b- Glycosides
- c- Gingerol
- d- Allicin

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**9- Wrongs about glycyrrhizin**

- a- Saponin -like compound
- b- less sweeter than sugar
- c- Licorice
- d- *Crocus sativus*

**10- Responsible for the color of Saffron**

- a- Safranal
- b- Crocin
- c- Menthol
- d- Carotenoid

**11- Fennel is used as**

- a- Antispasmodic
- b- Stimulate digestion
- c- Hypolipidemic
- d- Ant-depressant

**12- These are friend plants for liver detoxification**

- a- Passiflora
- b- Milk thistle
- c- *Salix alba*
- d- *Curcuma longa*

**13- The hypotensive properties of olive leaves due to**

- a- Oleic acid
- b- Iridoid
- c- Fixed oil
- d- Oleuropeoside

**14- Cabbage is used for Osteoporosis because of**

- a- Glucosinolates
- b- Boron content
- c- Estrogen
- d- Yellow pigment

**15- Used to help in sleeping and as natural hypnotic**

- a- *Vitis vinifera*
- b- Bromelain
- c- Choline
- d- *Passiflora incarnate*

**16- Soybeans are important in terms of nutrition due to content of**

- a- High fats
- b- Essential amino acids
- c- Antioxidants
- d- Omega-3 fatty acids

**17- *Nigella sativa* is used as anti-asthmatic as a result of**

- a- Dithymoquinone
- b- Carbohydrates
- c- Thymoquinone
- d- Arginine

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**18- Sulphureus phytochemicals**

- a- Ajoene
- b- Quercitin
- c- Raphanin
- d- Orientin

**19- The part used in *Crocus sativus* is**

- a- Spiracle
- b- Petals
- c- Pistil
- d- Stigma

**20- Used as emmenagogue herbs**

- a- Sage
- b- Hibiscus
- c- Ruta graveolens
- d- Ginkgo

**21- Wheat germ stimulates prostaglandin synthesis due to its high content of**

- a- Phytosterols
- b- Vitamin A
- c- EFAs
- d- Volatile oils

**22- *Coffea arabica* seeds are**

- a- Belongs to Rutaceae
- b- Belongs to Rubiaceae
- c- Used against dyspepsia
- d- Contain nicotine

**23- Coenzyme q10 is a supplement that**

- a- Contains capsaicin
- b- Heal heart diseases
- c- Irritate the skin
- d- Formed by beets fermentation

**24- The active principles in Cocoa are**

- a- Caffeine
- b- Menthol
- c- Theobromine
- d- Phenylethylamine

**25- Cyanogens are**

- a- Toxic glycosides
- b- Sulfur compounds
- c- Amygdalin
- d- Brassica plants

**26- Almonds are**

- a- Source of Vitamin E
- b- Monocotyledon
- c- Contain Phytosterols
- d- Not within Rosaceae

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27- *Camellia sinensis* is used for a slim figure due to

- a- Caffeine
- b- Polyphenols
- c- Caffeine and polyphenols
- d- Lipolysis

28- *Nerium oleander* contains several toxins ,including

- a- Glycosides
- b- Ricin
- c- Nerin
- d- Atropine

29- What are trues about Mushrooms

- a- High protein content
- b- Autotrophic
- c- Have no vitamins
- d- Functional food

30- Solanine is poisonous alkaloids found in

- a- *Solanum lycopersicum*
- b- *Prunus amygdalus*
- c- Black nightshade
- d- *Linum usitatissimum*

**B- Use medicinal effects in between brackets below and fill in the table for each appropriate plant and fill the part used too in the second column :-( 5Marks).**

Plant	Medicinal use	Part used
Fenugreek		
Clove		
Seaweed		
<i>Lavandula stoechas</i>		
Pineapple		
<i>Daucus corata</i>		
Common flax		
Pumpkin		
Primrose		
Ginkgo		

(Appetite suppressant -Hypnotic- Appetizer -Teeth disorder – Lowering cholesterol level – Cerebral circulation -Anticellulite-Skin beauty - Prostatic hypertrophy - Premenstrual syndrome.)

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## Question Two :( 18Marks).

### A- Explain :-( 5 Marks).

- 1- The mechanism of wheat germ oil in the treatment of high cholesterol?
- 2- The mechanism of *Glycyrrhiza glabra* in healing ailments and ulcers?
- 3- The mechanism of fennel to treat bloating problems?
- 4- Polyphenols role for weight loss in *Theobroma cacao*?
- 5- Mechanism of using cranberry as antibacterial for the urinary tract?

### B-Fill in the missed information for each plant in the table below :-( 5 Marks).

Plant	Active ingredient	Part used
Fennel		
Ginger		
Licorice		
Tomatoes		
Cinnamon		
Peppermint		
Ginseng		
Turmeric		
Garlic		
Aloysia		

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**C- Put (T) for the correct answer and (F) for the wrong one, re-correct the wrong and justify the correct ones :-( 8 Marks).**

- 1- Passiflora is used as alternative medicine for hypotensive. ( )
- 2- Red vines play a role in contract of the muscular cells of blood vessels. ( )
- 3- Cucumber is used friendly in case of high blood pressure. ( )
- 4- Sweet basil has strong citrus scent due to limonene. ( )
- 5- *Cucumis sativus* is recommended to create brighter skin. ( )
- 6- ESCOP has approved mint as anti- sweating. ( )
- 7- Seaweed is monocotyledon plant used as slimming diet. ( )
- 8- Apple is used as ant-acid due to content of pectins and the effect of arginine. ( )
- 9- Moringa decreases the access of acids in the stomach. ( )
- 10- Bromelain is a monoterpene useful in breaking large proteins. ( )

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**Question Three (12Marks).**

(Note for this question: Mention the common name of plants only)

**A-Mention :-( 2.5 Marks).**

- 1- Plants used in healing the following Feminine problems? One different for each case.
  - a- For breastfeeding:.....
  - b- For irregular periods:.....
  - c- For increasing uterus construction:.....

2- One example for each?

- Monocotyledon plants:.....
- Pteridiophyta plants:.....
- Conifer plants:.....

3- Two nutritional values of mushrooms and two medicinal effects?

- Nutritional values: 1.....  
2.....
- Medicinal effects: 1.....  
2.....

**B-Complete :-( 2.5Marks).**

- 1- The antidepressant effect of cocoa is due to.....
- 2- The combining of the bioactive substance ..... with the function of the mineral.....makes almond useful in treating the pain of a headache.
- 3- .....in cocoa produces the Nitric oxide synthase which improve the work of .....in the body.
- 4- Banana contains high amount of ..... While the horsetail contains ..... , and wheat germ has high content of vitamin.....
- 5- The protein of sesame is known as .....
- 6- Coenzyme Q10 occurs widely in vegetables ,particulary.....

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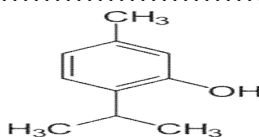
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**C-Answer the following questions :-( 2 Marks).**

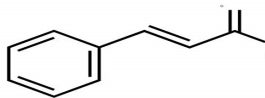
- 1- The below phytochemical structure is (Monoterpene – Triterpene – Flavonoid – Phenylpropanoid –Volatile oil ) Underline the best two answers and Justify:-

Justification:.....



- 2- The below phytochemical structure is (Terpene –Volatile oil –Phenol – Phenylpropanoid-Alkaloid) Underline the best one answer and Justify:-

Justification:.....



- 3- (Crocus -Pears - Turmeric -Corn - Pine ) :Underline the dicotyledonous plants only  
 4- Phytotoxic substances are plant active principles (True or False).....Justify.

Justification:.....

**D-Match columns A and B by writing the corresponding number in column B :- ( 5Marks).**

Column(A)	Column(B)
1- Sage	Willow bark ( )
2- Glutamine	Allinase ( )
3- <i>Camellia sinensis</i>	Anthocyanins ( )
4- <i>Menth piperita</i>	Anti-ulceric ( )
5- Olive leaves	Proanthocynidins ( )
6- Salicin	Fluoxetine ( )
7- <i>Allium cepa</i>	Diaphoretic ( )
8- Red vine leaves	Hypotensive ( )
9- Cranberry	Phytoestrogen ( )
10- <i>Theobroma cacao</i>	Catecholamines ( )

**End**