

Al Azhar University

April 30, 2017

Faculty of Pharmacy

Time: 2 h

Department of Pharm. Chem & Pharmacognosy

M: /100

Extra Final Exam

Please Answer All the Following Questions:

1. Define the terpenoids.

(5M)

2. Mention the biochemical isoprene units derived by mevalonic pathway (use scheme style).

(10M)

Phytochemistry II
dr mazen
final 2017

3. Write the biogenesis of IPP starting from acetyl Co A (10M)

mention 3 examples of the group with chemical structures. (10M)

4. Write briefly about the chemical properties of monoterpen, and mention 5 examples which belong to this group with chemical structure. (10M)

5. Write briefly about the following drugs within the table:

- | | |
|--------------|------|
| a. Reserpine | (7M) |
| b. Valprol | (7M) |
| c. Divalpro | (7M) |
| d. Serophen | (7M) |

This space for drawing the structural formula for valproic acid

5. Define the Iridoids (use chemical structure for explaining)(5M)

6. Write briefly about the following drugs conform the table:
- | | |
|-----------------|------|
| a. Feverfew | (7M) |
| b. Taxol | (7M) |
| c. Licorice | (7M) |
| d. Strophanthus | (7M) |

This space for drawing the structures not for writing

With briefly show phytochemicals, toxicity & Pharmacological

Product	Drug name (1M)	Phytochemicals (3M)	Effect (s) (3M)
Feverfew			
Taxol			
Licorice			
Strophanthus			

7. Write briefly about phytosterols (Chemistry & Pharmacological properties). (12M)

8. Write briefly about the value/role of cholesterol in phytochemistry.

(10M)

1	Cholesterol		
2	Cholesterol		
3	Cholesterol	Cholesterol	Cholesterol
4	Cholesterol		
5	Cholesterol		
6	Cholesterol		
7	Cholesterol		
8	Cholesterol		
9	Cholesterol		
10	Cholesterol		

9. Please complete the following table:

(10M)

No	Oil	Plant source	Major constituent	Major Use
1	Bergamot			
2		Cinnamomum camphora		
3			Carvone	Carminative
4	Coriander			
5	Sage			
6	Peppermint			
7	Rosemary			Antibacterial
8	Ginger			
9	Lemon			
10	Tea tree			

GOOD LUCK!

Dr. Mazen El-Sakka

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