



June Exam 2015
Time allowed: 2hours
1/6/ 2015

المادة
دور مايو
٢٠١٥/٦/١



Fayoum University
Faculty Of Medicine
Pharmacology Department

PHARMACOLOGY

Paper I (80 Marks)

Answer the following questions :(10 Marks for each question).

(Q 1-7 : 5 marks for A ,B. Q 8 : 2 marks for each item .

Question 1:

A-Define and show illustrations of:

- i- Partial agonist
- ii-1st order kinetics
- iii- Bioavailability of a drug administered orally
- iv- Irreversible antagonist
- v- Steady state concentration of a drug administered orally

B-List drug interactions of :

- i-Digoxin
- Ii-Warfarin

Question 2:

A-Mention

- i-Mechanism of antihypertensive action of Propranolol
- ii-Adverse effects of Clonidine

B-Mention:

- i- Actions of Dopamine
- ii- Adverse effects of Atropine

Question 3:

A-Copy the table in your answer paper and mention the effects of either Verapamil or Nitrates on the shown items

	Verapamil	Nitrates
Arterioles or venules		
Coronaries		
Heart rate		
Cardiac contractility		
Blood pressure		
Adverse effects		

B-Mention the mechanism of action and adverse effects of Fosinopril.

Question 4:

A-Differentiate in a table the main pharmacological actions of :

- i-Aspirin
- ii-Acetaminophen

B-List central nervous system pharmacological actions of Morphine



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Question 5:

A-Classify Glucocorticoids and mention their adverse effects.

B- Mention mechanism of action and adverse effects of Thioamides.

Question 6

A-Classify and describe mechanism of action of benzodiazepines.Explain why these drugs are the preferred sedative hypnotics

B-Describe mechanism of action and list the adverse effects of :

i-Phenytoin

ii-Rifampicin

Question 7

A-Mention adverse effects of:

i-Furosemide

ii-Liquid paraffin

B-Contrast the mechanism of action and adverse effects of :

i- Trimethoprim-sulfamethoxazole

ii - Aminoglycosides

Question 8

The results of the following drug interactions are unfavorable,
Explain (2 marks for each item):

A-Propranolol with Insulin

B-Thiazides with Digoxin

C-Spironolactone with carbenoxolone

D- Captopril and Amiloride

E-Rifampicin with oral contraceptive pills

GOOD LUCK