

**FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF NURSING SCIENCE**



**PROGRAMME** : POST BASIC PHARMACOLOGY FOR NURSING SCIENCE

**SUBJECT** : MODULE 2: SPECIFIC DRUGS PART 2

**CODE** : FAR02B2/FAR9X01

**DATE** : SUPPLEMENTARY EXAMINATION JANUARY 2018

**DURATION** : 3 HOURS

**TOTAL MARKS** : 100

---

**EXAMINER** : MS PS ZIBI

**MODERATOR/S** : MR BS MATLALA (UJ)

**NUMBER OF PAGES:** THIS PAPER CONSISTS OF FOUR (4) PAGES

---

**INSTRUCTIONS** : ANSWER ALL QUESTIONS.  
(1) MARK PER FACT UNLESS OTHERWISE INDICATED

---

**INSTRUCTIONS TO CANDIDATES:** This Examination Paper remains the property of the University of Johannesburg and may not be removed from the examination room.

---

**SUPPLEMENTARY EXAMINATION JANUARY 2018**  
**SUBJECT: POST-BASIC PHARMACOLOGY IN NURSING (FAR02B2/FAR9X01)**  
**MODULE 2: SPECIFIC DRUGS: PART 2**

**QUESTION 1**

Match the drug in **Column A** to the mode of action in **Column B**. For example, if you are of the opinion that a nurse upholds the principle of autonomy when she admits that she forgot to record a patient's blood pressure, you would write in your answer script: **1.3 (a)**.

COLUMN A	COLUMN B
1.1 Levodopa	a) Inhibits the decarboxylation of levodopa in the intestines and periphery making more levodopa available to the CNS
1.2 Entacapone	b) Dopamine agonist that activates dopamine receptors in the striatum to release dopamine
1.3 Ropinirole	c) Causes selective, irreversible inhibition of MAO-B and prevents inactivation of Dopamine in the striatum
1.4 Selegiline	d) Selective D <sub>2</sub> receptor agonist making Dopamine more available in the striatum
1.5 Bromocriptine	e) A selective inhibitor of COMPT that inhibits decarboxylation of Levodopa in the periphery and intestines making increasing the availability of levodopa in the striatum
1.6 Carbidopa	f) Enters the brain via active transport to cross the blood brain barrier and is converted to active Dopamine in the brain
1.7 Amantadine	g) inhibit Dopamine uptake, stimulates dopamine release, blockade of cholinergic and glutamate receptors
1.8 Phenytoin	h) Suppress high-frequency neuronal firing, blocks Na channels, suppresses calcium channels and potentiates GABA
1.9 Carbamazepine	i) Suppresses high-frequency neuronal firing by delaying recovery of sodium channels from their inactive states
1.10 Valproic Acid	j) selective inhibition of the recovery of sodium channels back to the active state therefore action potential is suppressed

\*[10]

**SUPPLEMENTARY EXAMINATION JANUARY 2018**  
**SUBJECT: POST-BASIC PHARMACOLOGY IN NURSING (FAR02B2/FAR9X01)**  
**MODULE 2: SPECIFIC DRUGS: PART 2**

---

## QUESTION 2

Fill in the missing words in the table below

\*[20]

DRUG CLASS	NAME OF DRUG	MODE OF ACTION	SIDE EFFECT
<b>1<sup>st</sup> Generation</b> Antipsychotic drug high potency <b>2<sup>nd</sup> Generation</b> Antipsychotic Drug that potentiate GABA Drug that inhibit Glutamate Selective Serotonin Inhibitor			

## QUESTION 3

Use the following table to answer the questions below. Fill in the rest of the table with the correct answers:

\*[20]

NAME OF DRUG	PHARMACOLOGICAL ACTION [2] marks per drug
1. Fluoxetine	
2. Phenobarbital	
3. Venlafaxine	
4. Setraline	
5. Selegeline	
6. Amytriptiline	
7. imipramine	
8. Sumatriptan	
9. Ergotamine	
10. Felbamate	

**SUPPLEMENTARY EXAMINATION JANUARY 2018**  
**SUBJECT: POST-BASIC PHARMACOLOGY IN NURSING (FAR02B2/FAR9X01)**  
**MODULE 2: SPECIFIC DRUGS: PART 2**

---

**QUESTION 4**

- 4.1 Discuss the four (4) commonly used TB drugs for a patient who has not yet developed drug resistance. (10)
- 4.2 Explain the health education you would give to the patient to prevent drug resistance. (10)  
\*[20]

**QUESTION 5**

- 5.1 Biguanides and Sulfonylureas are both oral hypoglycaemic drugs given to patients with Type 2 Diabetes. In a table form display the different ways in which these drugs reduce blood sugar levels \*[10]

**QUESTION 6**

- 6.1 Explain the general mechanism of action of antibiotics. (5)
- 6.2 Explain the mode of action of Penicillin. (5)
- 6.3 Propose to the patient who is on antibiotics an effective way to take his treatment. (10)  
\*[20]

---oOo---