

THE OPEN UNIVERSITY OF SRI LANKA  
FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF PHARMACY  
ACADEMIC YEAR 2018/2019 – SEMESTER I



BACHELOR OF PHARMACY HONOURS  
FMU6303 – CLINICAL PHARMACY I – LEVEL 6  
FINAL EXAMINATION  
DURATION: THREE HOURS

DATE: 12<sup>th</sup> MARCH 2019

TIME: 1.30 P.M. – 4.30 P.M.

**Part B – Short Answer Questions (20 marks/10 Marks each)**

1.

1.1 Define 'medication review'. (03 marks)

.....  
.....  
.....  
.....  
.....

1.2 List **three (03)** patient factors you would consider when performing medication review. (03 marks)

I. ....  
II. ....  
III. ....

1.3 Write **four (04)** sources of information you would use in medication review. (04 marks)

I. ....  
II. ....  
III. ....  
IV. ....



2.

2.1 Write **three (03)** drugs that would cause hypoglycaemia as a side effect. (03 marks)

I.....

II.....

III.....

2.2 List **three (03)** symptoms of hypoglycaemia you would tell a patient during counselling for a drug mentioned in 2.1 (03 marks)

I.....

II.....

III.....

2.3 Write **two (02)** advices you would give to a diabetic patient to avoid drug-induced hypoglycaemic conditions. (04 marks)

I.....

II.....

**Part C – 02 Structured-Essay Questions – 60 marks (15 each)**

1. Patient counselling is a main responsibility of a clinical pharmacist.

1.1. List **four (04)** benefits of patient counseling. (04 marks)

1.2. A patient is newly prescribed with Warfarin 5 mg to be taken at 5 pm daily for deep vein thrombosis. Briefly explain how you would counsel this patient. (06 marks)

1.3. Briefly describe why reconciliation at discharge is important for the discharge counseling. (05 marks)

2. Mrs. C (60 years old) has a history of hypertension and asthma. She is admitted to your ward for an endoscopy test. You can see from the clinic notes that Mrs. C is being investigated for gastric ulcers.

Below is the medication history taken by the junior ward pharmacist;

Losartan 50mg/ mane  
 Salmeterol + Fluticasone capsule (combined)/ inhale SOS (prescribed bd)  
 Salbutamol capsule/ inhale SOS  
 Diclofenac 50mg/ tds (self-prescribed) – being on this a few months for a back pain

Note : Patient doesn't know the drug names and follow poor inhaler techniques.

2.1. Comment on the appropriateness of the medicines she has been taking. (08 marks)

Her current drug chart includes Losartan 50mg/mane, Salmeterol + Fluticasone capsule/ inhale bd, Salbutamol capsule bd (Diclofenac not charted)

2.2. What action would you take regarding diclofenac? (02 marks)

2.3. Briefly explain how you would improve this patient's medication taking behavior and knowledge regarding the medicines. (05 marks)

3. 49-year-old Mr. HA has a history of heart failure and osteoarthritis. He is receiving the following medications:

Perindopril 10 mg/mane  
Frusemide 40 mg/bd  
Carvedilol 12.5 mg/bd  
Digoxin 250 µg daily  
Spironolactone 12.5 mg/tds  
Dilteazem 60mg/ tds (new)

- 3.1. List the drug related issues you can identify with your suggestions to reduce these drug related issues (06 marks)
- 3.2. Why would you need to monitor his serum electrolytes? (03 marks)
- 3.3. After one-month, patient got admitted with nausea and vomiting. Digoxin toxicity was suspected.
- 3.3.1. Briefly explain why you would recommend Therapeutic Drug Monitoring (TDM) for digoxin? (03 marks)
- 3.3.2. When should samples be collected from this patient for the TDM of Digoxin? Justify your answer. (03 marks)
4. Mr. LD has a history of diabetes, hypercholesterolaemia and hypertension. He is 80 years old and weighs 70 kg. He is admitted to the ward for a minor surgery. The surgery is scheduled after 3 days of admission. His past medication history is as below;
- Metformin 1g/tds  
Glibenclamide 5mg/bd  
Atorvastatin 20 mg/n  
Aspirin 75mg/n  
Enalapril 5mg/bd
- Drug list charted in the bed head ticket on admission is as below,
- Metformin 1g/tds  
Glibenclamide 5mg/bd  
Enalapril 5mg/bd
- 4.1. Write a medication reconciliation plan and mention the drugs which are not reconciled if there are any. (03 marks)
- 4.2. Mr. LD's serum creatinine is 300 micromol/L. Calculate his creatinine clearance according to Cockcroft-Gault equation. (06 marks)
- 4.3. Briefly explain how you would counsel Mr. LD for glibenclamide. (06 marks)

