

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



BACHELOR OF PHARMACY HONOURS
BPU4245 – CLINICAL PHARMACY – LEVEL 6
FINAL EXAMINATION
DURATION: THREE HOURS

DATE: 12th MARCH 2019

TIME: 1.30 P.M. – 4.30 P.M.

INDEX NO:

INFORMATION TO CANDIDATES

- This question paper consists of **04 pages** with **05 Structured Essay Questions**.
- Write answers on the answer booklet and the sheets provided.
- Each question carries a total of 20 marks.

IMPORTANT INSTRUCTIONS

- Write your Index Number in the space provided.
- Answer **All** questions.
- Do **NOT** remove any page/part of this question paper from the examination hall.
- Do **NOT** keep unauthorized material, including mobile phones and other electronic equipment, with you during the examination.

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. (10 marks)

1.3. Briefly describe why reconciliation at discharge is important for the discharge counseling. (06 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 had been taking before coming to the hospital. (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? (04 marks)

2.3. Briefly explain how you would improve this patient's medication taking behavior and knowledge regarding the medicines. (08 marks)

3. 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

- 3.1. Write a medication reconciliation plan and mention the drugs which are not reconciled if there are any. (04 marks)
- 3.2. Mr. LD's serum creatinine is 300 micromol/L. Calculate his creatinine clearance according to Cockcroft-Gault equation. (08 marks)
- 3.3. Briefly explain how you would counsel Mr. LD for glibenclamide. (08 marks)
4. Immunization aims to artificially induce immunity against diseases.
- 4.1. List **three (03)** different **types** of vaccines. (06 marks)
- 4.2. Can rubella vaccine be administered to a patient who has undergone a kidney transplantation one month ago? Justify your answer. (06 marks)
- 4.3. A lady who visit your pharmacy asks whether it is safe to administer vaccines to a pregnant mother. Briefly explain your answer to this lady. (08 marks)

5. Mrs. RW, a 75 years old woman, was admitted to the hospital with an exacerbation of heart failure.

Her past medical history includes Heart Failure, Hypertension, Dyslipidaemia, and Ischaemic Heart Disease (IHD).

Her medication history;

Enalapril 5mg daily

Furosemide 40mg daily

Metoprolol XL 23.75mg daily

Atorvastatin 40mg daily

Isosorbide mono nitrate (ISMN) SR 60 mg bd

GTN 600mcg s/l sos

Meloxicam 7.5mg sos

5.1. What is the drug with no clear indication in this patient based on information provided? (05 marks)

5.2. Is the drug you have mention in 5.1 suitable for Mrs. RW? Explain the reasons. (05 marks)

5.3. Briefly explain the interventions you would make as a clinical pharmacist to make the patient's treatment safe and effective. (10 marks)