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18 SEP 2020

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
ACADEMIC YEAR 2019/2020 – SEMSETER I

BACHELOR OF PHARMACY HONOURS
FMU5400 – PHARMACOLOGY II – LEVEL 5
FINAL EXAMINATION
DURATION: THREE (03) HOURS

DATE: 18TH SEPTEMBER 2020 TIME: 09.30 A.M. – 12.30 P.M.

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Part B – SEQs (60 marks)

01.

1.1 A 56-year-old woman presents to the pharmacist with a prescription containing following medicines.

Amitriptyline 50 mg daily nocte

Simvastatin 10 mg daily nocte

Metformin 500 mg BD

Metoprolol 25 mg BD

Lisinopril 20 mg daily nocte

She has a medical history of hypertension, type 2 diabetes mellitus and depression. She has recently started an antacid which contains calcium carbonate for dyspepsia. She complains of constipation.

1.1.1 List the medicine/s prescribed to this patient for following indications. Sate the specific medicine class of each medicine you mention.

a. Diabetes mellitus

b. Depression (10 marks)

1.1.2 Briefly explain the possible reason/s for occurrence of constipation in this patient. (10 marks)

1.1.3 Briefly describe the mechanism of action of amitriptyline. (05 marks)

1.1.4 State two (02) contraindications of amitriptyline. (05 marks)

1.2 Explain the possible drug interactions that are likely to occur with following drug combinations.

a. Moclobemide and fluoxetine (10 marks)

b. Lithium and ibuprofen (10 marks)

02.

2.1 Briefly explain the pharmacological basis of use of methimazole in Graves' disease. (15 marks)

2.2 State two (02) adverse effects of methimazole. (05 marks)

2.3 Write five (05) advices you would give when dispensing methimazole to a patient. (15 marks)

2.4 Describe the rationale of use of antithyroid medicines in pregnancy and lactation. (15 marks)

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03.

3.1 Briefly explain the mechanism of action of following medicines.

a. Ceftriaxone (10 marks)

b. Gentamicin (10 marks)

3.2 State two (02) important side effects of gentamicin. (05 marks)

3.3 Explain two (02) advantages of combined use of antibiotics in a treatment regimen. Support your answer with relevant examples. (10 marks)

3.4 Briefly explain the following.

a. Avoid milk and dairy product for 02 hours after administration of tetracycline. (05 marks)

b. Avoid mixing of penicillin and gentamicin in the same syringe. (05 marks)

c. Cloxacillin is preferably administered before a meal. (05 marks)

04.

4.1 Briefly explain the mechanism of action of amphotericin B. (10 marks)

4.2 Write the reason/s for avoiding concurrent use of following drugs with amphotericin B.

a. Digoxin (05 marks)

b. Flucytosine (05 marks)

c. Cisplatin (05 marks)

4.3 Describe the rationale for the use of triple therapy in HIV infection? (10 marks)

4.4 Describe the pharmacological basis for use of primaquine in the treatment of *Plasmodium vivax* monoinfection. (10 marks)

4.5 List two (02) contraindications of primaquine. (05 marks)