BACHELOR OF PHARMACY HONOURS
FMU4304 – HOSPITAL PHARMACY – LEVEL 4
FINAL EXAMINATION
DURATION: THREE (03) HOURS

DATE: 19TH SEPTEMBER 2023 **TIME: 9.30 A.M – 12.30 P.M.**

Part B – Short Answer Question (20 Marks)

1.

1.1 Name five (05) criteria used to classify hospitals. (05 marks)

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

1.2 What are two (02) main types of epidemiological studies? (02 marks)

I. .....
II. .....

1.3 List two (02) importance of having an essential medicine list for a country. (02 marks)

I. .....
II. .....

1.4 What is meant by a "hospital formulary"? (01 mark)

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Index No.....

2.

2.1 Define the following terms. (02 marks)

I. Medication errors

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II. Adverse drug reactions

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2.2 List two (02) barriers to rational use of medicines. (02 marks)

I. .....

II. .....

2.3 List four (04) practices helpful in efficient dispensing. (02 marks)

I. .....

II. .....

III. .....

IV. .....

2.4 Name four (04) requirements to be fulfilled in repacking of pharmaceutical products.

(04 marks)

I. .....

II. .....

III. .....

IV. .....

Index No.....

Part C – Structured Essay Questions (60 Marks)

1.

50-years-old Mr. C.M. Perera was discharged following an ischemic stroke three months ago. He was readmitted after a second ischemic attack. It was found that he had not been prescribed an antiplatelet medicine (aspirin) on discharge after the first attack (ischaemic stroke). This was not noticed by the prescribing doctor, the pharmacist dispensing the medication, or the nurse handling the prescription in the hospital where he was treated for the first time.

1.1 Write two (02) types of medication errors that occurred in the above case as per the medication use process. (02 marks)

1.2 Write three (03) undesirable outcomes of medication errors. (03 marks)

1.3 Briefly explain the occurrence of medication errors in the above patient according to the "Swiss Cheese Model". (04 marks)

1.4 Describe the safe practices that should be maintained as a pharmacist to avoid medication errors.

(06 marks)

2.

2.1 Name two (02) categories of unit dose dispensing systems in hospitals. (01 mark)

2.2 List two (02) advantages of the unit does dispensing system. (02 marks)

2.3 What is meant by "aseptic dispensing" (02 marks)

2.4 Write four (04) important items that need to be included in the label of an aseptically compounded parenteral product. (04 marks)

2.5 You are going to transfer vancomycin from an ampoule to an IV fluid bottle. Briefly explain the aseptic techniques you will follow during this procedure. (06 marks)

Index No.....

3.

3.1 Calculate the safety stock level for a drug using the provided equation and data.

(03 marks)

(Lead time = 6 months/Average consumption = 200 000 units)

3.2 Illustrate the ideal inventory control model using stock on hands vs time in months graph.

(06 marks)

3.3 Briefly explain the impact of hidden costs in selecting a supplier for purchasing medicines. When you are explaining use the data in below-mentioned figure X. (06 marks)

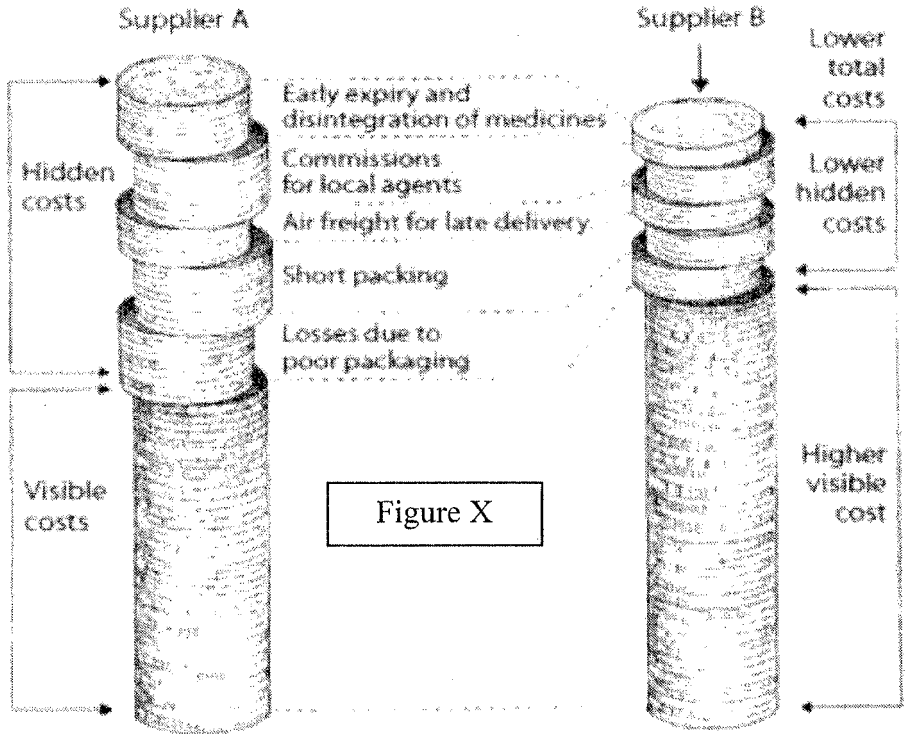


Figure X

4.

4.1 What are radiopharmaceuticals? (01 mark)

4.2 List two (02) main applications of radiopharmaceuticals in the hospital. (02 marks)

4.3 Give two (02) differences between nuclear pharmacy and hospital pharmacy. (02 marks)

4.4 Briefly explain five (05) good practices in nuclear pharmacy. (10 marks)