



<b><u>FACULTY</u></b>	: Health Sciences
<b><u>DEPARTMENT</u></b>	: Department of Nursing Science
<b><u>CAMPUS</u></b>	: DFC
<b><u>MODULE</u></b>	: MODULE 1: POST BASIC PHARMACOLOGY IN NURSING SPECIFIC DRUGS PART 1 - FAR02A2
<b><u>SEMESTER</u></b>	: First
<b><u>EXAM</u></b>	: June 2019 Examination

<b><u>DATE</u></b>	: 08 June 2019	<b><u>SESSION</u></b>	: 12h30-15h30
<b><u>ASSESSOR(S)</u></b>	: Dr. P Zibi		
<b><u>MODERATOR</u></b>	: Mr BS Matlala		
<b><u>DURATION</u></b>	: 3 Hours	<b><u>MARKS</u></b>	: 100

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**NUMBER OF PAGES: 3 (Three) PAGES**

**INSTRUCTIONS:**

1. Answer ALL THE QUESTIONS.
  2. Number your answers CLEARLY
  3. One mark per motivated fact.
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**QUESTION 1**

In 2016, researchers published the results of an investigation where a cluster of 5 adult patients unintentionally received insulin instead of the influenza vaccine. Acute hypoglycaemia was reported in all 5 patients who received the insulin with varying degrees of symptoms. It is noted that the patients were not informed about the “vaccines” they were accidentally given. It was not documented that the patients received the “vaccines”. After the first 2 patients complained of sweating and light-headedness, the student nurse reported the incidents to the supervising nurse, but did not stop administering the vaccines. Later, two patients required hospitalization for their symptoms, one of which was documented to have a blood glucose level of 2.3 mmol/dL. The patients were instructed by the student nurse to stop performing as there was nothing wrong with them. The investigation revealed that the influenza vaccine vial was kept in the nurse's office refrigerator along with a 10 mL vial of Humalog U-100 insulin; they were not stored in separate, labelled containers. Analyse the scenario and answer the questions below.

- 1.1 Identify five errors that were committed by the student nurse (5)
- 1.2 Stipulate the patients' rights violated as identified in the scenario above (5)
- 1.3 According to Regulation R2418, explain the functions of the nurse as stipulated in the regulation to guide the practice of the nurse regarding medication (5)
- 1.4 According to the Medicines and Related Substances Act, Act 101 of 1965 as amended and the scope of practice R2598, analyse and apply the act and regulation to the scenario above (5)
- 1.5 Apply the implications of the Bergman's model to the practice of the nurse as related to the scenario above (10)

**\*(30)**

**QUESTION 2**

Mr. Solomon is a 63-year old gentleman who has been under your care for a variety of medical problems during the past 5 years. He has been treated for two heart failure episodes, hypertension and non-insulin dependent diabetes. Today, he presents in your

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ward with shortness of breath which has been progressive over the past five days. He has, however, experienced episodes of shortness of breath during the past four months, especially when exerting himself. He fatigues easily and has lost "all my energy to do anything." He also complains of anorexia. Last night he awoke suddenly from sleep because "I couldn't catch my breath" and developed a dry cough. The breathing problem improved when he sat on the edge of his bed for an hour. He generally sleeps with two, sometimes three pillows. He has not experienced chest pain, leg pain or fainting spells. Vital Signs: Blood Pressure 160/92mmHg; Heart Rate 110/min; Respiratory Rate 26/min. Examination of the cardiovascular system revealed neck veins that were distended to the mandible when the patient is sitting upright. Examination of the abdomen: The liver edge is palpable and tender. There is pitting oedema of both lower extremities. Analyse the scenario above and answer the questions below

2.1 In a table form, suggest four commonly used drugs from different drug classes that can be used for this patient and indicate why you would use them and show the benefits of both in congestive heart failure and hypertension. (10)

2.2. Indicate the health education that you can give to this patient regarding the medication that they are using (10)

### **QUESTION 3**

3.1 Differentiate between Warfarin and Heparin using the following headings: drug class, mode of action, side effects and antidotes (10)

3.2 Indicate the health education measures that you would recommend for a patient on anticoagulants and also highlight the side effects of anticoagulants (10)

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**QUESTION 4**

4.1 Distinguish between the Sympathomimetics and Parasympathomimetics drugs (10)

4.2 Use the following table to answer the questions below. Fill in the rest of the table with the correct answers: [20]

<b>NAME OF DRUG</b>	<b>PHARMACOLOGICAL ACTION [2] marks per drug</b>	<b>SIDE EFFECTS 2 marks each</b>
1. Simvastatin		
2. Questran		
3. Niacin		
4. Ezetimibe		
5 Fenofibrate		

**Total: \*100**