**HL7 Questionnaire**

1. **What is an ADT message?**

An ADT message stands for Admission, Discharge, and Transfer, which is a type of HL7 message used in healthcare systems to communicate patient-related information. ADT messages are crucial in managing patient data as they provide updates to various systems (like electronic health records, billing systems, etc.) when a patient's status changes.

1. **What are HL7 Separator characters?**

HL7 messages use separator characters to distinguish between different parts of the message. These characters are essential for parsing and processing HL7 messages correctly. HL7 defines five specific separator characters, which are set in the MSH (Message Header) segment of the message - Field Separator (|), Component Separator (^), Subcomponent Separator (&),Repetition Separator (~), Escape Character ()

1. **What function would you use to update the date and time to current in MSH segment in Mirth?**

new Date(): to retrieves the current date and time.

toISOString(): to convert the date to a string in the ISO 8601 format (YYYY-MM-DDTHH:MM:SS.sssZ).

replace(): to remove unwanted characters

1. **A sending application sends all ADT types. The client only accepts ADT-A01. How would you handle that in Mirth?**

I would fiter out any ADT types that weren’t A01’s

1. **Where in Mirth would you write code that is used in multiple channels?**

Code template section

1. **Where would you set a certain type of data for a channel to receive and send out?**

Source connector

1. **How would you allow the code, written in question 5, to be used by a channel?**

Navigate to the Source Transformer

Click on the Code Templates drop-down

Check the box next to the code template(s) that you want to assign to the channel.

1. **Inbound and outbound message templates are used for what?**

to define the structure of the messages and allow you to standardize and handle the message format and fields during the transformation process

1. **How would you map a variable without the use of JavaScript?**

by utilizing the drag and drop mapping feature available in the Message Builder step within the Transformer

1. **Using JavaScript, loop through any 3 element array and log/write out the individual elements.**

myArray = [Patient1, Patient2, Patient3];

(var i = 0; i < myArray.length; i++) {

logger.info(myArray[i]); }

**11. What is the Velocity Template Language? Can you provide an example?**

a scripting language used for dynamically generating text content, such as HTML, XML, or HL7.

Example: $date.format('yyyyMMddHHmmss'): Inserts the current date in the yyyyMMddHHmmss format