**Round 1**

**Experiment 7 Lab**

| **Discipline** | **Human Anatomy and Physiology** |
| --- | --- |
| **Lab** | **HAP-I** |
| **Experiment** | **1. To estimate Hemoglobin Content in Blood** |

**1.Focus Area : Estimation of Hemoglobin**

**2.Learning Objectives and Cognitive Level**

| **Sr. No** | **Learning Objective** | **Cognitive Level** | **Action Verb** |
| --- | --- | --- | --- |
| 1. | User will be able to: Understand the estimation of Hemoglobin. Understand the basic concept of utility of Hemoglobin estimation. | [Type as per the document](http://vlabs.iitb.ac.in/vlabs-dev/document.php) | [Type as per the document](http://vlabs.iitb.ac.in/vlabs-dev/document.php) |
| 2. | User will be able to: Identify the Hemoglobin content. Understand the Practical Aspects | [Type as per the document](http://vlabs.iitb.ac.in/vlabs-dev/document.php) | [Type as per the document](http://vlabs.iitb.ac.in/vlabs-dev/document.php) |
| 3. | User will be able to: Next line from here Next line here. | [Type as per the document](http://vlabs.iitb.ac.in/vlabs-dev/document.php) | [Type as per the document](http://vlabs.iitb.ac.in/vlabs-dev/document.php) |
| 4. | User will be able to: Next line from here Next line here. | [Type as per the document](http://vlabs.iitb.ac.in/vlabs-dev/document.php) | [Type as per the document](http://vlabs.iitb.ac.in/vlabs-dev/document.php) |

**3.Instructional Strategy**

Name of Instructional Strategy : As per Handout

Assessment Method: As per handout

Description: of how you are going to implement the above Instructional Strategy in your Simulator: Brief description as per handout

**4.Task & Assessment Questions:**

| **Sr. No** | **Learning Objective** | **Task to be performed by the student in the simulator** | **Assessment Questions as per LO & Task** |
| --- | --- | --- | --- |
| 1. | To understand the Hemoglobin and its use | Collection of blood sample | What are the precautions need to take while sampling? |
| 2. | To understand the estimation of Hemoglobin | Addition of HCl and Distilled water for color comparison | 1 What is the Principle of experiment? A. Change in color B. **Formation Acid Hematin**  C. Colorimetry D. None of the Above  (mark correct option as bold text) |

You can add more rows by copying the last row

**5.Simulator Interactions:**

| **Sr. No** | **What Students will do?** | **What Simulator will do?** | **Purpose of the task** |
| --- | --- | --- | --- |
| 1. | Student will see the Human Body and Site of Blood Sampling | Animated Human Body and Pricking Finger | To take blood sample |
| 2. | Student will see the blood sample into Hemoglobinometer | Blood sample and HCl reaction and color change | Reaction to form Acid Hematin |
| 3. | Student will see the color change and Understand the Principle | Color change will be compared with Hemoglobinometer | Comparison with standard |
| 4. | Student will read the reading | In the color mixture, addition of distilled water for proper result | Final color comparison with Standard |

You can add more rows by copying the last row