



**COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES**

**DEPARTMENT OF BIOMEDICAL AND MEDICAL LABORATORY SCIENCES**

**BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS DEGREE**

**NSLS200: TRANSFUSION SCIENCE AND IMMUNOLOGY 1**

**END OF FIRST SEMESTER SUPPLEMENTARY EXAMINATIONS**

**22 JANUARY 2021**

**LECTURER: MR M. MUTENHERWA**

**DURATION: 24 HOURS**

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***INSTRUCTIONS***

1. Write your candidate number on your answer sheets.
  2. Answer any **one** question of your choice from the given three questions.
  3. Each full question carries 100 marks.
  4. Submit your answer scripts as word documents.
  5. Use the following specifications in your answer scripts:  
Font: Times New Roman  
Font size: 12  
Line spacing: 2.0
  6. Credit will be given for logical, systematic and neat presentations.
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**Answer any ONE question**

**Question 1**

Demonstrate your understanding of the journey of a **unit of whole blood** from the vein of the blood donor to the vein of the blood recipient and even beyond **[100 marks]**

**Question 2**

Describe how complement activation achieves haemolysis? **[100 marks]**

**Question 3**

You are working at Victoria Chitepo National Public Health Laboratory. The Nurse In Charge in a post-natal ward has called and informed you that the patient she was transfusing with blood cross-matched by your laboratory is showing signs and symptoms of haemolytic transfusion reaction. Give a detailed description of how you would investigate this reported case of suspected Haemolytic transfusion reaction. **[100 marks]**

**End of Paper**