BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT OF ENVIRONMENTAL SCIENCE

ESM112

HUMAN ANATOMY AND PHYSIOLOGY

DURATION: 2hrs

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES

* MOV 2023

Answer THREE questions out of the following five questions. You must answer question ONE from SECTION A and any TWO questions from SECTION B.

SECTION A (COMPULSORY) 1. a) Give a brief comparison between Macrophages and Neutrophils. [6] b) Outline the different types of Acquired Specific Immunity. [4] c) Explain how the antibody-mediated response provides humans with immunity against [20] pathogens. **SECTION B** 2. Explain how the anatomy of the Integumentary System aids in its functions. [20] [10] 3. a) Explain the functions of the Nervous System. [10] b) Differentiate between the Somatic and Autonomic Nervous Systems. [20] 4. Write an essay on the digestive system. [10] 5. a) Draw and label the urinary system of a human being. b) Explain the role of kidneys in controlling blood pH. [10]

End of Paper