

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT: ENVIRONMENTAL SCIENCE

PROGRAMME: SAFETY HEALTH AND ENVIRONMENTAL MANAGEMENT

COURSE CODE: ESM 112 HUMAN ANATOMY AND PHYSIOLOGY

DURATION: 2hrs

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES

NOV 2024

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) Describe the major trunk cavities and their divisions. [10marks]
- b) Distinguish between endocrine and exocrine glands. [10marks]
- c) Compare and contrast the nervous system with the endocrine system. [10marks]

SECTION B

2. Citing examples, explain what is the function of the inflammatory response. [20marks]
3. a) Draw and label the heart as seen when cut using the coronal plane. [10marks]
4. b) Describe the Systemic and Pulmonary circuit of blood circulation. [10marks]
5. a) Outline the process of ossification. [16marks]
- b) Differentiate between thick and thin skin as to the layers present and their locations. [4marks]
6. a) Using an appropriate example, describe a positive-feedback mechanism. [10marks]
- b) Explain the role of the integumentary system. [10marks]

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