

BINDURA UNIVERSITY OF SCIENCE EDUCATION
BIOLOGICAL SCIENCES DEPARTMENT
BScBZH/HBScBioTec

 MAR 2023

BZH

BTEC223 Ethics, Safety, and Intellectual Property in Biotechnology/
BTEC128 Biotechnology Regulation and Biosafety

EXAMINATION
2 HOURS (100 MARKS)

INSTRUCTIONS

Answer FOUR questions. You MUST answer QUESTION 1 (Section A) and any THREE questions from Section B. Each question carries 25 MARKS. Where a question contains subdivisions, the mark value of each subdivision is given in brackets. Illustrate your answers, where appropriate, with large, clearly labelled diagrams. You should not spend more than thirty minutes on each question.

SECTION A (COMPULSORY)

1. Describe major biosafety guidelines outlined in Statutory Instrument 20 of 2000 in Zimbabwe.

SECTION B

2. Biotechnology comes with benefits and potential hazards. Discuss.

3. Write short notes on any FIVE of the following:

- (a) Patents (5)
- (b) Copyrights
- (c) Trade Secrets
- (d) Trademarks
- (e) Geographical Indications
- (f) Industrial Design

4. Outline benefits that would accrue to Zimbabwe upon full implementation of Cartagena protocol under the following subtitles:

- (a) Human health. (7 marks)
- (b) Biodiversity. (6 marks)
- (c) Economic well-being. (6 marks)
- (d) Benefit-sharing. (6 marks)

5. Discuss the role of the National Biotechnology Authority (NBA) of Zimbabwe.

6. Discuss the importance of ethics in Biotechnology.

END OF EXAMINATION QUESTION PAPER