BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGC 121

Department of Crop Science BSc Agricultural Science (Honours) Part I Examination Molecular Biology

3 HOURS (100 Marks)

INSTRUCTIONS



Answer any FOUR questions. Each question carries 25 marks.

	ii Phenotype	[2 marks] [2 marks] [2 marks]
(b (c) Highlight the importance of melosis.	[9 marks] [10 marks]
2.	Discuss the impacts of biotechnology in Zimbabwe and globally?	[25 marks]
3.	(a) Discuss the three checkpoints critical for cell cycle regulation.(b) Highlight the differences between DNA and RNA.	[15 marks] [10 marks]
4.	With an aid of a diagram, describe the central dogma of molecular biology	. [25 marks]
5.	(a) What is a nucleic acid?(b) Outline the different enzymes or proteins involved in DNA replication.(c) Describe the secondary structure of proteins.	[3 marks] [16 marks] [6 marks]
6.	(a) Describe the three major types of RNA found in living cells.(b) Outline the components of a structural gene.(c) Why is the study of DNA replication so important in science?	[12 marks] [8 marks] [5 marks]

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End of Exam Paper