BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGC 2260

[25 marks]

Department of Crop Science BSc Agricultural Science (Honours) Part II Examination Principles of Crop Production

3 HOURS (100 Marks)

INSTRUCTIONS



Answer any FOUR questions. Each question carries 25 marks.

3 W C	I ally I OOK questions. Each question carries 22 maximus	
1.	a) The Ministry of Lands is planning to resettle new farmers into previously uncultivated lands. Advise the Ministry on any five factors to be considered in	
	selecting land for cultivation.	[15 marks]
		[10 marks]
	b) Describe the division of Zimbabwe into agro-ecological regions.	
2.	a) Outline plant classification according to the following;	
	i. Life cycle,	[3 marks]
	ii. Sexual expression,	[3 marks]
	iii. Climatic adaptation,	[4 marks]
	iv. Water requirement,	[4 marks]
	v. Binomial system of nomenclature.	[6 marks]
	b) Outline the advantages of early planting.	[5 marks]
	of Odding the advantages of early pressures.	
3.	Discuss the contribution of the following climatic factors on crop production.	
	a) Temperature,	[5 marks]
	b) Solar radiation,	[5 marks]
	c) Wind,	[5 marks]
	d) Rainfall,	[5 marks]
	e) Relative humidity.	[5 marks]
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4.	Discuss the following terms and their relevance to irrigation systems.	
	a) Crop factor,	[5 marks]
	b) Total available moisture,	[5 marks]
	c) Soil type,	[5 marks]
	d) Root depth,	[5 marks]
		[5 marks]
	e) Evaporation pan.	[S marks]
5.	Discuss the criteria for selection of rainwater harvesting technologies in dryland	
٥.	cropping systems.	[25 marks
	cropping systems.	.
6.	Discuss any five factors limiting biological nitrogen fixation in crop production.	

End of Exam Paper

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