## BINDURA UNIVERSITY OF SCIENCE EDUCATION

## FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

**AGC 220** 

## Department of Crop Science BSc Agricultural Science (Honours) Crop Science Part 11 Examination Principles of Crop Production

3 HOURS (100 Marks)

## **INSTRUCTIONS**

Answer any FOUR questions. Each question carries 25 marks.



	1.	Describe the following land tenure systems in Zimbabwe a) Communal. b) Old resettlement. c) Large scale commercial. d) A1 e) A2	[5 marks] [5 marks] [5 marks] [5 marks] [5 marks]
•	2.	<ul> <li>a) Describe the following methods of nutrient deficiency diagnosis</li> <li>i) Soil analysis</li> <li>ii) Leaf analysis</li> <li>iii) Deficiency symptoms</li> <li>b) Discuss the various methods of fertilizer application using named fertilitexamples.</li> </ul>	[5 marks] [5 marks] [5 marks] zer [10 marks]
	3.	Discuss the long term demerits of tillage and how conservation agriculture	avoids these
	4.	effects on crops.  Describe the various methods of weed classifications used in agriculture.	[25 marks] [25 marks]
		Discuss the following systems of crop production using name Zimbabwea  a) Multiple cropping. b) Relay cropping. c) Monoculture. d) Intercropping. e) Shifting cultivation.	
	6.	<ul> <li>a) Define the following terms</li> <li>i) Wilting point.</li> <li>ii) Field capacity.</li> <li>iii) Available water capacity.</li> <li>iv) Irrigation interval.</li> </ul>	[3 marks] [3 marks] [3 marks] [3 marks]

v) Allowable moisture depletion.

[3 marks]

b) Discuss the merits and demerits of using retained seeds.

[10 marks]

END OF PAPER