

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**

**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**

**MFS 507**

**Department of Agricultural Economics, Education and Extension  
MSc in Food Security and Sustainable Agriculture Part I Examination  
Food Security and Vulnerability Assessment**

**3 HOURS (100 Marks)**

1006 JU - 8

**INSTRUCTIONS TO CANDIDATE**

Answer question **ONE** from **SECTION A** and any **TWO** questions from **SECTION B**.

**SECTION A (COMPULSORY)**

- 1 (a) Discuss the different phases of a food security assessment. **[30 marks]**
- (b) Explain the type of secondary information that is collected during a food security assessment **[20 marks]**

**SECTION B**

2. Table 1 below highlights the food crop production estimates in metric tonnes for the 2020/21 agricultural season in Zimbabwe.

Table 1: 2020/21 agricultural season crop production estimates

Crop	2020/2021	2019/2020	Growth (%)
Maize	2 717 171	907 629	199
Sorghum	244 063	103 684	135
Pearl Millet	90 683	39 032	132
Finger Millet	13 223	9 799	35
Groundnut	208 864	87 479	139
Round Nut	37 156	23 832	56
Sweet Potato	422 613	114 558	269
Sugar Beans	30 613	12 650	142
African Peas	38 452	18 430	109
<b>TOTAL</b>	<b>3 802 838</b>	<b>1 317 093</b>	<b>189</b>

- i) Based on the table above explain the highlights of the state of 2020/21 farming season. **[10 marks]**
- ii) Based on the crop assessment results discuss major recommendations to be considered by policy makers in attempting to sustain agriculture in the country. **[15 marks]**
3. Describe in detail any 4 non-anthropometric measurements of food security status of households or individuals. **[25 marks]**
4. Discuss the following measures of nutritional status of infants:
- i) Mid -Upper Arm Circumference **[7 marks]**
- ii) Weight-for-age **[6 marks]**
- iii) Height-for-age **[6 marks]**
- iv) Weight-for-height **[6 marks]**

**END OF PAPER**