

**BAFS 3118- MAIN EXAM DRAFT-MAY-AUGUST SEMESTER- 2019**

**YEAR 3: SEMESTER 1**

**UNIT CODE: BAFS 3118**

**UNIT TITLE: CLIMATE SMART AGRICULTURE**

**INSTRUCTIONS:** Answer question **ONE (compulsory)** and any other **TWO** questions

**QUESTION ONE**

(a). Explain the following terms:

(i). Climate-smart agriculture (2 Marks)

(ii). Sustainable and inclusive food value chain (2 Marks)

(b). Differentiate between the terms adaptation and mitigation in climate smart agriculture (4 Marks)

(c). Describe FIVE types of livelihood assets that enable a household to survive (5 Marks)

(d). Distinguish between social protection and safety nets programs (5 Marks)

(e). Discuss the THREE supportive roles of institutions in the scaling up of climate-smart agriculture practices (6 Marks)

(f). Discuss the THREE objectives of energy smart food in climate smart agriculture context (6 Marks)

**QUESTION TWO**

(a). Discuss FIVE strategies that lead to the achievement of more efficient food systems (10 Marks)

(b). Discuss the impact of climate change on the following food security components:

(i). Potential impacts of climate change on food availability (5 Marks)

(ii). Potential impacts of climate change on food access (5 Marks)

**QUESTION THREE**

(a). Discuss ANY FIVE challenges in the development of safety nets to encourage climate smart agriculture practices (10 Marks)

(b). Describe FIVE negative practices of financial institutions that consider agriculture sector as high-risk (5 Marks)

(c). Explain the FIVE challenges to the inclusion of carbon credits into carbon markets (5 Marks)

#### **QUESTION FOUR**

- (a). Discuss ANY FIVE categories of important climate finance options (10 Marks)
- (b). Explain how the sustainable and inclusive food value chain contribute to climate smart agriculture (10 Marks)

#### **QUESTION FIVE**

- (a). Discuss FIVE strategies for coping with increased risk and uncertainty in order to increase resilience in agricultural systems (10 Marks)
- (b). Discuss the TEN principles of sustainable and inclusive food value chain development (10 Marks)