

**SPECIFY TYPE OF  
EXAMINATION**

- FIRST ATTEMPT   
FIRST RESIT   
SECOND RESIT   
RE-TAKE



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF SPATIAL PLANNING AND NATURAL RESOURCES MANAGEMENT  
UNIVERSITY EXAMINATION FOR THE DEGREE OF ARTS IN SPATIAL PLANNING**

**2<sup>rd</sup> YEAR 1<sup>st</sup> SEMESTER 2021/20222 ACADEMIC YEAR**

**MAIN CAMPUS**

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**COURSE CODE: PPB 1213**

**COURSE TITLE: PLANNING & AGRICULTURE**

**Instructions:**

1. Answer question 1 (compulsory) and ANY other 2 questions.
2. Candidates are advised not to write on the question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.



Registration No.....

**QUESTION ONE: 30 Marks**

- a. Explain why agriculture is defined both as an art, science, and business (5mks).
- b. Discuss your understanding of the following concepts in agriculture and planning (5mks)
  - i. Economic Rent
  - ii. Urban Agriculture
  - iii. Organic Agriculture
  - iv. Agro-ecological Zones
  - v. Agricultural Engineering
- c. Describe the significance of understanding the agro-ecology of a region while preparing Regional Physical and Land Use Plans (10mks)
- d. Discuss the role of Agriculture in National Development (10mks)

**QUESTION TWO: 20 Marks**

- a. Using examples discuss the various Agro-ecological Zones in Kenya (10mks)
- b. Discuss the Strategies by which Spatial Planners can integrate agriculture into Urban Physical and Land Use Plans. (10mks)

**QUESTION THREE: 20 Marks**

- a. Using a diagram, explain the concentric zonal rings of agricultural production as envisioned by Von Thunen. (10mks)
- b. Differentiate between Conventional/Industrial Agriculture and Alternative/Sustainable Agriculture (10mks)

**QUESTION FOUR: 20 Marks**

- a. You have been tasked to conduct a suitability analysis for locating agro-processing industries in an emerging urban center, discuss the factors you will consider in selecting the most suitable locations. (10mks)
- b. Although urban agriculture can be an opportunity-rich activity for residents, communities, and cities, it is not without challenges. Explain this statement (10mks)

**QUESTION FIVE: 20 Marks**

- a. Highlight any FIVE determinants of Food Insecurity in Kenya (5mks)
- b. The Sustainable Development Goals or Global Goals are a collection of 17 interlinked global goals designed to be a "blueprint to achieve a better and more sustainable future for all". Explain these goals and how Agriculture can be used to achieve each of them. (15mks)