



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

JANUARY – APRIL 2018 TRIMESTER

FACULTY OF ARTS AND SOCIAL SCIENCES

DEPARTMENT OF HUMANITIES

REGULAR PROGRAMME

GEO 313: THEORIES OF SPATIAL PATTERNS AND PROCESSES

Date: APRIL 2018

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) Differentiate between the following terms and concepts
- i) Urban primacy and binary distribution **(4 marks)**
 - ii) Spatial processes and spatial interaction **(4 marks)**
- b) Elaborate on any four factors that contributes to agglomeration economies **(8 marks)**
- c) Identify and explain the main variables of locational rent as stipulated by Von Thünen **(12 marks)**
- d) “*The spatial interaction is subject to transport cost*” validate this statement **(8 marks)**
- e) Explain any FOUR assumptions of Webber’s theory of industrial location. **(4 marks)**
- Q2. a) Outline any five factors that contributed to establishment of towns **(10marks)**
- b) “A city has an economic life and death” Explain this narrative as advanced by J. Forrester (1961) **(10 marks)**

- Q3. a) Apply gravity model to explain the spatial processes in the country of your choice **(12 marks)**
b) Explain any four barriers to spatial diffusion **(8 marks)**
- Q4. Evaluate the central place theory, citing relevant examples from Nairobi **(20 marks)**
- Q5. a) Apply the rank size rule to elaborate on urban settlements in a Kenya **(12 marks)**
b) Explain the two main variations in rank size rule **(8 marks)**

END