NPTEL » Urban Landuse and transportation planning Announcements About the Course Ask a Question Progress Mentor Unit 4 - Week 2 Course outline Assignment 2 How does an NPTEL online The due date for submitting this assignment has passed. Due on 2020-09-30, 23:59 IST. course work? As per our records you have not submitted this assignment. Week 0 1 point Which of the following statement(s) is/are correct for Bid rent theory? Week 1 A. Transportation cost increases at an increasing rate as the distance from CBD increases. Week 2 B. Rent decreases at an increasing rate as the distance from CBD increases. Lecture 06 : Theoretical C. Individuals or firms select locations based on a tradeoff between transportation cost and land foundations Part 1 price. Lecture 07 : Theoretical a. A only foundations Part 2 b. B and C Lecture 08 : Modeling c. A and C approaches d. A, B and C Lecture 09 : Existing integrated land use transportation models Lecture 10 : Land use transportation model components and future challenges No, the answer is incorrect. Lecture Material Score: 0 Accepted Answers: Quiz : Assignment 2 Feedback for Week 2 1 point Alonso (1964) model is based on minimization of transportation costs between Week 3 Week 4 a. production area and market b. residential area and workplace Week 5 c. residential area and market d. production area and workplace Week 6 Week 7 Week 8 ○ d. Week 9 No, the answer is incorrect. Score: 0 Week 10 Accepted Answers: Week 11 1 point 3) Select the correct bid rents for the given figure? Week 12 Rent DOWNLOAD VIDEOS **Assignment Solution** Live Interactive Session Text Transcripts a. A-Retailing; B-Apartment; C-Single House; D-Industry b. A-Industry; B-Retailing; C-Apartment; D-Single House c. A-Industry; B-Retailing; C-Single House; D-Apartment d. A-Retailing; B-Industry; C-Apartment; D-Single House ○ a. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Select the correct option for the types of urban spatial-interaction location models (gravity model)? Fixed origin and destination A. Unconstrained model Household searching for residence B. Attraction constrained model C. Production constrained model Household without job and residence D. Doubly constrained model Jobs are not fixed Jobs are fixed a. A-III, B-II, C-IV,D-I b. A-III, B-II, C-V,D-I c. A-I, B-II, C-IV,D-III d. A-I, B-IV, C-V,D-III ○ c. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Select the correct option for the different components of land use and transportation model? Population forecast A. Real estate development model B. Demographic transition model Job creation and loss New commercial development C. Economic transition model D. Employment location choice model Workplace location a. A-IV, B-I, C-II, D-III b. A-III, B-I, C-II, D-IV c. A-III, B-I, C-IV, D-II d. A-III, B-II, C-I, D-IV ○ a. No, the answer is incorrect. Accepted Answers: accessibility is the ease with which different activities may be reached from one zone to other zones. No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) Regional 1 point 1 point 7) Lowry model of Metropolis (1964) was a spatial interaction model? a. Unconstrained b. Non-singly constrained c. Singly constrained d. Doubly constrained ○ b. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point 8) Which of the following is not an Urban land use and transportation model in use? a. MUSSA b. URBANSIM c. NYMTC-LUM d. CMP No, the answer is incorrect. Score: 0 Accepted Answers: 1 point 9) Which of the following model is exogenous to URBANSIM? a. Travel demand model b. Accessibility model c. Land price model d. Household and employment mobility model ○ c. No, the answer is incorrect. Score: 0 Accepted Answers: 10) Hagerstrand (1970) identified various constraints in his work on time geography. Which constraints refer to an individual's limitation to participate in activities due to sharing a resource with another person at a specified time or need to participate in an activity with another person? No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) Coupling 0 points 11) Which of the following model is based on the concept of polycentric employment city? 1 point a. Burgess model b. Von Thunen model c. Harris and Ullman model d. Hoyt's sector model ○ a. ○ c. No, the answer is incorrect. Score: 0 Accepted Answers: 12) Which of the following statement(s) is (are) correct for the discrete choice model developed by 1 point McFadden in 1978? A. The discrete choice model is based on the concept of utility. B. The discrete choice model considers mutually exclusive and exhaustive alternatives or choices. C. The discrete choice model is deterministic. D. An individual considers two choices i.e. willing to move from the present house and willing to stay in the present house. A discrete choice model can be applied to predict the individual's housing mobility. a. A, B, and D b. A, B, and C c. A and D d. B and D No, the answer is incorrect. Score: 0 Accepted Answers: 1 point modelling approach is used to predict land-use changes for smaller time horizons and for business as usual scenarios? a. Rule-based simulation b. Optimization c. Pure statistical d. Cellular Automata No, the answer is incorrect. Score: 0 Accepted Answers: 1 point modeling approach imitates urban processes while considering limitations arising out of government's development policies and allocates population to locations based on strict rules? a. Rule-based simulation b. Optimization c. Pure statistical d. Agent-based model ○ c. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point modelling approach can be used to model fixed entities whereas modelling approach can be used to model spatially movable entities. a. Agent-based model and Cellular automata b. Cellular Automata and Microsimulation model c. Agent-based model and Microsimulation model d. Cellular Automata and Agent-based model ○ a. No, the answer is incorrect. Score: 0 Accepted Answers: 16) Invasion succession and dominance theory are examples of 1 point a. Location theory b. Accessibility theory c. Social theory d. Economic theory No, the answer is incorrect. Score: 0 Accepted Answers: 1 point 17) Which of the following is a correct expression for accessibility of zone i to destinations j if the cost of travel from zone i to destinations j is cij? a.  $Ai = \frac{e^{-\beta cij}}{\sum_{j}Dj}$ b.  $Ai = \frac{1}{\sum_{j}Dj*e^{-cij}}$ c.  $Ai = \frac{1}{\sum_{j}Dj*e^{-\beta cij}}$ d.  $Ai = \frac{1}{\sum_{j}Dj*e^{\beta cij}}$ No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Which of the following statement(s) is (are) correct for the Microsimulation modeling approach? A. It can capture heterogeneity at the level of individuals, firms, or households. B. The data requirement is large. C. It does not suffer from monte Carlo error a. A only b. A and B c. A and C d. B and C ○ a. ○ c. No, the answer is incorrect. Accepted Answers: 19) Which of the following statement is correct for the Comprehensive Mobility Plans (CMPs)? 1 point A. It promotes integrated land use and transportation planning. B. Demand for passenger transport is estimated using a four stage model. C. It does not consider parking plans. D. A travel demand forecasting model is developed to evaluate several strategic scenarios for urban growth. a. A and B b. B and D c. A, B and C d. A, B and D No, the answer is incorrect. Accepted Answers: 1 point Which zone is characterized by mixed residential and commercial establishments in Burgess's Concentric zone model (1920)? a. Zone of better residence b. Zone of transition c. CBD d. Zone of independent working class No, the answer is incorrect. Score: 0 Accepted Answers: