NPTEL » Urban Landuse and transportation planning Announcements About the Course Ask a Question Progress Mentor Unit 12 - Week 10 Course outline Assignment 10 How does an NPTEL online Due on 2020-11-25, 23:59 IST. The due date for submitting this assignment has passed. course work? As per our records you have not submitted this assignment. Week 0 1 point 1) Which of the following statement is incorrect Week 1 a. CUBE Dynasim and VISSIM are suitable for dynamic traffic simulation b. The accuracy of Operational street pollution model depends on the Week 2 accuracy of the meteorological data Week 3 c. International Vehicles Emission Model is an emissions estimation software for on-road vehicle fleets Week 4 d. Motor Vehicle Emissions Simulator (MOVES) software is not suitable for Week 5 mesoscopic analysis Week 6 Week 7 Week 8 No, the answer is incorrect. Score: 0 Week 9 Accepted Answers: Week 10 2) Among the following statements regarding CUBE Dynasim and VISSIM the correct one is Lecture 46 : Transportation 1 point Software a. CUBE Dynasim is suitable for microscopic modeling and VISSIM is suitable Lecture 47 : CUBE Overview for macroscopic modeling Lecture 48: Travel demand b. GIS integration is available for CUBE Dynasim only modelling using CUBE and c. Parking simulation is not available in CUBE Dynasim and VISSIM VISUM d. CUBE Dynasim and VISSIM are dynamic traffic simulation software Lecture 49 : Activity based modelling in CUBE Lecture 50 : Vehicular emission and pollution modelling Lecture Material No, the answer is incorrect. Quiz : Assignment 10 Score: 0 Feedback for Week 10 Accepted Answers: Week 11 3) Among the following which one is not in CUBE Voyager's in-built program library? 1 point Week 12 a. Generation b. Distribution DOWNLOAD VIDEOS c. Mode d. Network Assignment Solution ○ a. Live Interactive Session ○ b. **Text Transcripts** ○ d. No, the answer is incorrect. Score: 0 Accepted Answers: 4) Streetlytics is suitable for 1 point a. Measuring population movement b. Estimating freight movement within the city c. Transit operation and management d. Predicting residential location choice ○ a. ○ **d**. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point The module required for developing four-stage commuters' travel demand model in CUBE is a. CUBE Voyager b. CUBE Land c. CUBE Dynasim d. CUBE Cargo ○ a. No, the answer is incorrect. Score: 0 Accepted Answers: 6) Given below are some steps in activity-based travel demand modeling in CUBE 1 point Preparation of skim matrices for networks Determination of the number of stops and type of tours Activity-scheduling (iv) Activity aggregation The activity-travel simulator includes a. (i) & (ii) b. (ii) & (iii) c. (i) & (iv) d. (ii) & (iv) No, the answer is incorrect. Score: 0 Accepted Answers: 1 point 7) To create a link between two transport analysis zones in VISUM first you have to go to the tab named a. Links b. Connectors c. Demand d. Screenlines ○ a. No, the answer is incorrect. Score: 0 Accepted Answers: 8) The in-built population synthesis algorithm in CUBE follows 1 point a. A heuristic combinatorial optimization approach b. Markov process-based approaches c. Iterative proportional fitting d. Cross-entropy optimization No, the answer is incorrect. Score: 0 Accepted Answers: 9) The factor not influencing road transport emission directly is/are 1 point a. Physical infrastructures b. Social infrastructures c. Driving behavior d. Fuel characteristics ○ a. No, the answer is incorrect. Accepted Answers: 1 point 10) Among the following transport emission measurement technologies which one is independent of dynamometer? a. Dynamometer and driving cycle testing b. Vehicle inspection and maintenance programs c. Fuel-based model d. Remote Sensing Devices No, the answer is incorrect. Score: 0 Accepted Answers: 11) Match the following CUBE extensions with their function 2 points Function **CUBE Extension** i. Prediction of passenger travel demand P. CUBE Voyager ii. Formulation of matrices directly from data Q. CUBE Analyst iii. Dynamic traffic simulation R. CUBE Cargo S. CUBE Dynasim iv. Estimation of the impact of freight movement v. Prediction of land use changes T. CUBE Land a. P-ii;Q-i;R-v;S-iii;T-iv b. P-v;Q-iv;R-ii;S-iii;T-i c. P-v;Q-iii;R-i;S-iv;T-ii d. P-i;Q-ii;R-iv;S-iii;T-v No, the answer is incorrect. Score: 0 Accepted Answers: 2 points 12) Some important features (denoted by (a), (b), (c)) of activity-based modeling in CUBE are (a) Activity-travel simulator is the preceding step of activity-travel aggregator (b) There are four sub-models under activity-travel simulators such as vehicle ownership model, activity scheduling, destination choice and residential location choice (c) Generation of synthetic population is outside the feedback loop. a. (a) & (b) is correct but (c) is incorrect b. (b) & (c) is correct but (a) is incorrect c. (a) & (c) is correct but (b) is incorrect d. (a) & (c) is incorrect but (b) is correct ○ a. ○ b. No, the answer is incorrect. Score: 0 Accepted Answers: 2 points 13) Match the following models and software with their respective features given below Models/software Features (i) Macroscopic Modelling P. CUBE Voyager Q. CMEM (ii) Mesoscopic modeling (iii) Emission modeling R. TRANSIMS S. CubeDynasim (iv) Microscopic Modelling The correct match from the set of options given below a. P-(iv); Q-(iii); R-(ii); S-(i) b. P-(i); Q-(ii); R-(iv); S-(iii) c. P-(iii); Q-(i); R-(ii); S-(iv) d. P-(i); Q-(iii); R-(ii); S-(iv) ○ **d**. No, the answer is incorrect. Score: 0 Accepted Answers: 2 points 14) Match the following and select the correct combination. **CUBE Extension** Purpose i. On-board emission analytical tools P. Remote Sensing Devices ii. Microscopic simulation model Q. Fuel-based model iii. Macroscopic, microscopic, and mesoscopic R. VISSIM S. Motor Vehicle Emissions Simulator analysis T. PEMS iv. Dynamometer based measure v. Infrared/ultraviolet absorption principle The correct match from the set of options given below a. P-ii;Q-i;R-v;S-iii;T-iv b. P-v;Q-iv;R-ii;S-iii;T-i c. P-v;Q-iii;R-i;S-iv;T-ii d. P-i;Q-ii;R-iv;S-iii;T-v No, the answer is incorrect. Score: 0 Accepted Answers: 15) Some important features (denoted by (a), (b), (c)) of activity-based modeling in CUBE are (a) 2 points highest and lowest zone number is mandatorily required to specify for trip generation model. (b) Skim table for time can be created through running 'network skim matrices' application. (c) There is no option to include 'highway skim matrices' in mode choice modeling. a. (a) & (b) is incorrect but (c) is correct b. (b) & (c) is incorrect but (a) is correct c. (a) & (c) is incorrect but (b) is correct d. (a) & (b) is correct but (c) is incorrect ○ c. No, the answer is incorrect. Score: 0 Accepted Answers: