

M - 11 - 1

1. There are two basic strategies for transit as an agent of urbanization One of them is transit-oriented development (TOD) and the other is development-oriented transit (DOT). Please generally explain the concepts of TOD and DOT **(20 %)**

2. Kevin Lynch was a professor at the Massachusetts Institute of Technology and wrote a famous book "Image of the City". The book concludes a five-year study analyzing residents' perceptions of Boston, Jersey City and Los Angeles. In the book, he presented a method for navigating environments. Please explain what are Lynch's mental map elements. **(30%)**

3. Climate change is already with us. Many studies present the way to live with the rapid changes may need to adapt the structures and forms of architecture and urban. Based on the concept above, please present the method on how to build an eco-city and the design dimensions may be included. **(20 %)**

4. Heat island effect deeply affects the live and work of our everyday life. There are many techniques to mitigate the unwanted condition. Now, you are asked to present methods to solve the problem by passive technique, which is low energy consumption. If the technique is used on designing the envelope of a building and should consider the performances of thermal, daylighting and natural ventilation, please draw a diagram with explanations for your design. **(30%)**