Final Exam

Closed Book: 30 points (30%)

1. Explain volume/capacity (v/c) ratio equals to 0.75. (2 points)
2. What are the different types of studies related to congestion management. (2 points)
3. Name three strategies to manage congestion. (2 points)
4. What are the common environment issues, and how do you address them while working on a transportation project as a transportation planner. (4 points)
5. Draw a schematic diagram of a complete highway and a transportation corridor. (4 points)
6. What are the four steps of travel demand modeling? (2 points)
7. Define user equilibrium and system optimal in transportation network modeling. (3 points)
8. Define traffic assignment. (1 points)
9. Explain gravity model in trip distribution. (2 points)
10. What is sustainable transportation systems. (1 points)
11. Draw a map showing local, collector, and arterial roads? (2 points)
12. What is collision diagram. (1 points)
13. What are the pavement condition parameters? And explain pavement deterioration model. (4 points)