## 國立中山大學資訊工程學系所

## Introduction to EDA&Testing – Spring 2022

Homework Assignment #1 Due Date: March 9, 2022

- 1. (25%) If the yield of good dice is 90%, and we want a defect level not to exceed 0.1%, what level of testing in terms of fault coverage must be achieved?
- 2. (50%) Given the market entry time verse revenue curves as shown in Figure 1, fill in the following formula
  - a. (25%) Lost Revenue = Total Expected Revenue \* [ ];

The answer should be in term of d and w.

d is the delay entry, 2w is the product life.

The two market growth rates are the same.

b. (25%) Given a product with total expected revenue \$100M, product life is 20 months. What is the revenue loss due to the one month late to the market?

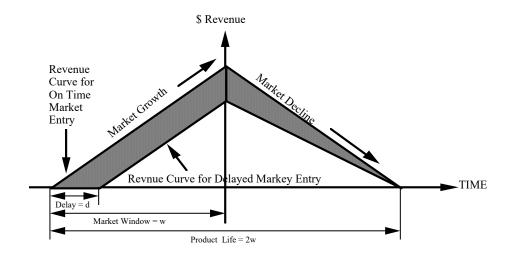


Figure 1. Market Entry Time vs. Revenue

3. (25%) Try to derive the test pattern for the fault f (sa1). Explain your result. Try to simply the circuit.

