Report on Failures and Corruption in networking devices

I would build the report from two parts: one focused on failures and another focused on corruption.

**Failures.** The part on failures should answer the following questions:

1. What is a failure?
2. Why do we care about failures? What are their consequences?
3. What elements/devices can fail in the network?
4. What are root causes of failures? Describe at least three reasons of a failure and explain why that particular root cause lead to a failure. For instance, a broken laser in optical cables is a cause of failure because there will be no light or light of lower intensity to carry the data.
5. What features of failure can you name? Describe at least three features and explain what the intuition behind it is. For example, link failures are predominantly random because each link can break independent of others with the only exception of a complete switch failing causing all links to be down.

**Corruption.** The part on corruption should answer the following questions:

1. How can we define corruption? How is corruption different from failure?
2. Why is corruption important?
3. What is the difference between packet corruption and congestion? Explain it from the perspective of what happens to the packets. You do not need to discuss feature of these.
4. What are root causes of corruption? (Discuss at least three examples.)
5. What features of corruption can you name? (Discuss at least three examples.)

When answering questions 5 and 6 in each category imagine that you want to explain this to a fellow student so you need to work with intuition and clear explanation focusing on cause and consequence relationship.

Each section of the report should fit on an A4.