Scalable Machine Learning and Deep Learning - Review Questions 5 Deadline: Dec. 11, 2021

- 1. 1 point. Explain how does the data-parallelized learning work?
 2. 1 point. Explain how does the model-parallelized learning work?
 3. 1 point. Explain different synchronization approaches in data-parallelized learning?
 4. 1 point. Briefly explain gradient quantization and gradient sparsification.
- 5. **1 point.** Use the following picture and show step-by-step how the ring-allreduce works to compute the maximum of all elements?

