Outline exam format

Question 1

Basic EM concepts and principles cf. construal comprehension exercise

Some relevant topics for revision:

- Construal, referent, context, understanding
- Observables, dependencies, agency
- Definitive scripts + definitive notations (EDEN)
- The Nim construal as embedded in the EMPE as an example of construal comprehension

Question 2

Construals vs programs: states and behaviours

Some relevant topics for revision:

- Broader view of computing (SBR)
- · EM and modelling state
 - Turing "mind following rules"
 - Gooding: construals for science e.g. Faraday
 - Situation, ignorance and nonsense
- EM and the explanation of behaviour e.g. Ant Navigation, the lift adventure, Ficts

Question 3

Constructivism & Constructionism: making construals

Some relevant topics for revision:

- Latour constructivism
- Papert constructionism
- Construals as enabling a constructivist outlook

 Ben Ari: computer as accessible ontological reality
 - Bret Victor's support for Papert constructionism
 - Online teaching together with active learning
- EM for constructionism, and for construction

Question 4

Software development from an EM perspective

Some relevant topics for revision:

- · Realising sw development as a lived experience
- Dave West on hermeneutic and formalist approaches: in "Object Thinking"
- EM in its relation to topical issues, such as:
 - programming paradigms
 - database theory / formal vs informal
 - conceptual integrity
 - cf. Date, Darwen, Ridley, Jackson, Harel, Brooks

Question 5

The ADM: overview and applications

Some relevant topics for revision:

- ADM characteristics
- ADM and the semantics of EDEN models
- LSD concepts & accounts of concurrent systems
- Machine- and human-oriented perspectives
- Analogy between EM systems development and the emergence of modern railways