Multiple Choice Questions

Chapter 6: Developing the Conceptual Model

1. Conceptual modelling requires the modeller to ... which of the following is not involved?

   a. Determine the objectives of the model
   b. Identify the model outputs
   c. Determine the content of the model
   d. Write the model code

2. The modeller can develop the conceptual model by:

   a. Talking with the clients
   b. Thinking about the problem
   c. Using formal methods such as Soft Systems Methodology
   d. All of the above

3. The modelling objectives should describe:

   a. What needs to be achieved
   b. The level of performance that is required
   c. Any constraints that need to be worked within
   d. If possible, all of the above

4. Which of the following is not a general project objective?

   a. Flexibility
   b. Model scope
   c. Time-scale
   d. Ease-of-use

5. Model outputs should:

   a. Only report on variables that are relevant to the modelling objectives
   b. Report on variables relevant to the modelling objectives and why the objectives are not being achieved
   c. Only report on variables that explain why the modelling objectives are not being achieved
   d. Report on every aspect of the model

6. The scope of a model can be described in terms of:

   a. Entities, activities, queues and resources
   b. Entities, activities, queues and processes

c. Entities, services, queues and processes
    d. Items, activities, failures and resources

7. In determining the level of detail in a model, which of the following should be done?

    a. Choose to exclude key components
    b. Fit distributions to data about components of the system
    c. Identify any simplifications that are being made
    d. All of the above

8. Which of the following are useful methods for model simplification?

    a. Black-box modelling
    b. Grouping entities
    c. Excluding infrequent events
    d. All of the above