- 10. a) Network analysis is used for the planning and control of large, complex projects. Summary
  - b) Networks comprise activities (represented thus ——>) and events (represented t (). Activities consume time and resources, events are points in time.
  - c) Networks have one start event and one end event. An event is not complete unti activities leading into it are complete.
  - d) The length of the arrows representing activities is not important because netw
  - e) Dummy activities (represented thus ---→) are necessary to show logical rela ships. They do not consume time or resources. They become necessary as network is drawn.

- 11. a) Network analysis is a popular type of examination question. Points to note
  - b) Network analysis is an important management tool and in some industries no civil engineering and construction, is used on a day by day basis.
  - c) Rarely does one draw a network in a neat, orderly fashion at the first att Accordingly it is is a useful examination technique to do a draft and copy th neatly for the official answer.

## Self review questions Numbers in brackets refer to paragraph numbers

- 1. What is Network Analysis? (2)
- 2 What are activities and events? (4)
- 3 What are the basic rules for drawing networks? (5)
- 4 Does the length of an activity arrow represent the time taken? (6)
- 5 What is a dummy activity? (8)

## **Exercises** with answers

Draw the network for the following problem.

	Preceding activity
Activity	_
1	1
2, 3, 4	2
5	3
6	5
7	6
8	7,8
9	3
10	4
11	9, 10, 11
12	y, 10, 11

2. Draw the network in question 1 except that Activity 8 is preceded by 6 and 2.