

## 2000 Paper 7 Question 12

### Additional Topics

The Active Bat is an ultrasonic tag, which forms part of an indoor location system. Describe the operation of this location system in terms of

- (a) the basic method used to locate Active Bats [6 marks]
- (b) synchronisation of Active Bats with the fixed ultrasonic receivers [6 marks]
- (c) system resource allocation to Active Bats that are moving [4 marks]
- (d) methods of obtaining orientation information for tagged objects [4 marks]