

## 1994 Paper 12 Question 3

### Digital Communication I

Define the term *circuit* as used in “circuit switching”. [4 marks]

Sketch the design of the in-band switching function of a circuit switch which switches  $4 \times 2$  Mbps trunks each supporting  $32 \times 64$  Kbps channels. [8 marks]

Describe how you would augment this design to allow the set up and clearing of connections. You should invent your own simple protocol for this purpose. [8 marks]