Q1. Fig Q1 shows two ATM switches.
(a) Determine the touting tables of the switches.
(b) Which fields of the header of a cell will be modified when a cell passes an ATM switch?

Q2. Explain the origin/meaning of the following terms relating to B-ISDN networks:
(i) fixed-size cells, (ii) statistical multiplexing, (iii) cell switching (iv) asynchronous transfer mode.

Q3. With the aid of the ATM format, explain the use of (i) the payload type field, (ii) the cell loss priority bit, (iii) the header checksum.

Q4. Describe the use of the RTCP protocol and, by means of a diagram, show its position in relation to the TCP/IP protocol stack.

Q5. Identify and give a brief explanation of the four main functions performed by RTCP.

Q6. Fig Q6 shows how end systems generate streams in an application using RTP.
(a) Assume that the payload type identifiers of ADPCM, DPCM, and GSM are, respectively, 42, 27 and 98. Determine the RTP packet headers at points A to G. You can ignore V, P, X, M, Sequence number and time-stamp fields in your answers.
(b) What are the functions of a mixer?
(c) Explain the meaning and the use of the following fields: (i) time-stamp and (ii) sequence number.