1.

1 2 3 4   a)

0
1
2
3
4

Transmission	Switch	Incoming Port	Incoming VCI	Outgoing Port	Outgoing VCI
A → C	1	2	0	3	0
D → B	1	0	0	1	0
	2	3	0	0	0
	3	0	0	3	0
D → I	1	0	1	1	1
	2	3	1	0	1
	3	0	1	2	0
A → B	1	2	1	1	2
	2	3	2	0	2
	3	0	2	3	1
F → J	4	2	0	3	0
	2	1	0	0	3
	3	0	3	1	0
H → A	4	0	0	3	1
	2	1	1	3	3
	1	1	3	2	2

Switch 1

Incoming Port	VCI	Outgoing Port	VCI
2	0	3	0
0	0	3	1
0	1	1	1
2	1	1	2
1	3	2	2

Sw 3

I (D)	VCI	O (P)	VCI
0	0	3	0
0	1	2	0
0	2	3	1
0	3	1	0

Switch 2

Incoming Port	VCI	Outgoing Port	VCI
3	0	0	0
3	1	0	1
3	2	0	2
1	0	0	3
1	1	0	3

Sw 4

I (D)	VCI	O (P)	VCI
2	0	3	0
0	0	3	1

2.

Source Node	Switch 1		Switch 2		Switch 3		Dest Node
	P	VCI	P	VCI	P	VCI	
A	3	1	3	3	2	1	D
B	3	2	3	2	2	2	D
A	2	3					B