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Unit 2 - Introduction, Basic signaling, Strowger exchange, crossbar, crossbar operation algorithm.

Assignment Week 1

The due date for submitting this assignment has passed. **Due on 2016-08-02, 23:59 IST.**

Submitted assignment

1) If N users are directly connected to an exchange then utilization factor of links is *1 point*

- 0
- 1/(N-1)
- 1
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
1

2) Access Networks connects *1 point*

- Subscriber to Subscriber
- Subscriber to Exchange
- Exchange to Subscriber
- Exchange to Remote Concentrator

No, the answer is incorrect.
Score: 0

Accepted Answers:
Subscriber to Exchange

3) If N users are connected to each other directly by dedicated links then the complexity of links will be *1 point*

- $O(N^2)$
- O(N)
- O(1)
- O(log N)

No, the answer is incorrect.
Score: 0

Accepted Answers:
$O(N^2)$

4) In a crossbar switch for N customers, the crosspoint utilization will be *1 point*

- N
- 1/N

- 1/(2N)
- 1

No, the answer is incorrect.
Score: 0

Accepted Answers:
1/(2N)

5) For a 8*8 crossbar switch, what will be the activate and deactivate sequence of control lines in order to connect following sequence of input output connections 1-2'4'7', 2-5', 7-6'8' ***1 point***

- R1↑C2↑C4↑R1↓C7↑, R1↓R2↑C5↑R2↓, R7↑C6↑C8↑
- R1↑C2↑C4↑C7↑R1↓, C5↑R1↓, R7↑C6↑C8↑R7↓
- R1↑C2↑C4↑C7↑R1↓, R2↑C5↑R2↓, R7↑C6↑C8↑R7↓
- R1↑C2↑C4↑C7↑, R2↑C5↑R2↓, R7↑C6↑C8↑R7↓R1↓

No, the answer is incorrect.
Score: 0

Accepted Answers:
R1↑C2↑C4↑C7↑R1↓, R2↑C5↑R2↓, R7↑C6↑C8↑R7↓

6) Which of the following statement is correct ***1 point***

- A crossbar with NxN connection is a strictly non blocking switch and has O(N) complexity.
- A crossbar with NxN connection is not a strictly non blocking switch and has $O(N^2)$ complexity.
- A crossbar with NxN connection is a strictly non blocking switch and has $O(N^2)$ complexity.
- A two stage switch can be made strictly non blocking.

No, the answer is incorrect.
Score: 0

Accepted Answers:
A crossbar with NxN connection is a strictly non blocking switch and has $O(N^2)$ complexity.

7) The minimum number of crosspoint connection required to implement 20X20 connection is ***1 point***

- 400
- 190
- 200
- 40

No, the answer is incorrect.
Score: 0

Accepted Answers:
190

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