



COMPUTER SCIENCES (5 QUESTIONS)

N°1 ALGORITHMS

How many layers are there in the OSI model?

- a) 3
- b) 5
- c) 7
- d) 9

N°2 ALGORITHMS

What is the output of the following Python programme?

A = "426"

B = "16"

C = A + B

- a) C = "42616"
- b) C = "442"
- c) C = 442
- d) C = "426+16"

N°3 NETWORKS AND ARCHITECTURE

Which network does host 10.15.25.32/22 belong to?

- a) 10.15.25.31
- b) 10.15.23.0
- c) 10.15.16.31
- d) 10.15.24.0



N°4 NETWORKS AND ARCHITECTURE

Given that the theoretical throughput of the SATA III interface is 6 Gbit/s, and in practice 80% of this throughput is achieved, how long does it take to transfer a 300 MB file?

- a) 500 ms
- b) 320 ms
- c) 2 s
- d) 20 s

N°5 SOFTWARE ENGINEERING

The following SQL query

```
SELECT id_client,clinom AS nom ,cliprenom AS  
prenom  
FROM t_client  
WHERE nom='DUPONT'  
ORDER BY nom
```

Why does this query not work?

- a) You must use "LIKE".
- b) The "WHERE" and "ORDER BY" clauses are reversed.
- c) The keyword "AS" is not allowed.
- d) Using an alias in the "WHERE" clause is not allowed.