UNIVERSITÀ
DEGLI STUDI
DI PADOVA

SELEZIONE PUBBLICA N. 2024S67, PER ESAMI, PER LA STIPULA DI N. 1 CONTRATTO DI LAVORO A TERMINE NELL'AREA DEI COLLABORATORI, SETTORE TECNICO, SCIENTIFICO, TECNOLOGICO, INFORMATICO E DEI SERVIZI GENERALI, A TEMPO PIENO, PER N. 12 MESI, AI SENSI DEL D.LGS. 30.03.2001, N. 165 E S.M.I., DEL D.LGS. 15.06.2015, N. 81, IN QUANTO COMPATIBILE, E DEL C.C.N.L. DEL 18.01.2024, PRESSO IL CENTRO DI ATENEO PER LA CONNETTIVITÀ E I SERVIZI AL TERRITORIO – VSIX. TECNICO DI SUPPORTO PER LA GESTIONE E IL MONITORAGGIO DI INFRASTRUTTURE DI RETE, DI SISTEMI SOFTWARE E DI IMPIANTI DI UN INTERNET EXCHANGE POINT (IXP).

QUESITI COLLOQUIO

Elenco n. 1

1) Il candidato illustri la funzione di un sistema di condizionamento in un ambiente datacenter.
2) Il candidato illustri i vantaggi dello scripting nella gestione di sistema informativo.

Almost as soon as laptops appeared, many people dreamed of walking into an office and magically having their laptop computer be connected to the Internet. Various groups worked for years to accomplish this goal. The most practical approach is to equip both the office and the laptop computers with short-range radio transmitters and receivers to allow them to talk. Work in this field rapidly led to wireless LANs being marketed by a variety of companies. The trouble was that no two of them were compatible.

Elenco n. 2

1) Il candidato illustri la funzione di uno o più gruppi elettrogeni in un ambiente datacenter.
2) Il candidato illustri la funzione che ha un sistema di monitoraggio in un ambiente di rete.

The biggest challenge concerning the electromagnetic spectrum concerns performing spectrum allocation efficiently and fairly. If multiple parties can transmit data in the same part of the spectrum in the same geographic region, there is significant potential for the communicating parties to interfere with one another. To prevent total chaos, there are national and international agreements about who gets to use which frequencies. Because everyone wants a higher data rate, everyone wants more spectrum.

Elenco n. 3

1) Il candidato illustri come digitalizzerebbe il magazzino dei componenti di un datacenter (es. patch cord, pannelli, power cord, transceiver, ecc.).
2) Il candidato illustri la funzione di un sistema di controllo accessi in un datacenter.

As networks grow in size, the router routing tables grow proportionally. Not only is router memory consumed by ever-increasing tables, but more CPU time is needed to scan them and more bandwidth is needed to send status reports about them. Additionally, even if every router could store the entire topology, recomputing shortest paths every time the network experienced changes in the topology would be prohibitive; imagine, for

example, if a very large network would need to computer shortest paths every time a link in the network failed or recovered.

Elenco n. 4

1) Il candidato illustri la funzione del gruppo di continuità (UPS) in un ambiente datacenter.
2) Il candidato illustri le diverse tipologie di fibra ottica che si possono trovare in un datacenter.

Some applications, such as a multiplayer game or live video of a sports event streamed to many viewing locations, send packets to multiple receivers. Unless the group is very small, sending a distinct packet to each receiver is expensive. On the other hand, broadcasting a packet is wasteful if the group consists of, say, 1000 machines on a million-node network, so that most receivers are not interested in the message (or worse yet, they are definitely interested but are not supposed to see it, for example, because it is part of a pay-per-view sports event).