COMPUTER SCIENCE TRIPOS Part II – 2020 – Paper 8

13   Principles of Communications (jac22)

(*a*) Briefly describe link-state routing, outlining the link-state advertisement and the shortest path computation that each node carries out.   [5 marks]

(*b*) *Fibbing* is a technique for injecting link-state advertisements to the routing system that provides a way to add alternate paths into the results of the route computation. Describe what this is for, how this operates and what security implications it has.

[15 marks]