

- 11) "Robert Morris senior was responsible for Unix security; Robert Morris junior for the Internet worm. The father did much more damage to Internet security than the son" (Whitfield Diffie). Discuss (20 marks)

- (A) Essay question. Morris junior did temporary damage but raised public consciousness of memory overwriting attacks which had been around but overlooked for many years. Morris senior designed Unix security for an environment in which several users were sharing a minicomputer and merely needed help not to overwrite each others' filespace; this system's popularity outran its security architecture and it ended up being used in progressively larger and less well controlled networks.

Specific criticisms of Unix protection defects will also attract some credit.