

COMPUTER SCIENCE TRIPOS Part IB – 2017 – Paper 5

6 Computer Networking (AWM)

- (a) Describe *on-off* flow control. In what circumstances is it appropriate? [4 marks]
- (b) Describe the operation of *window-based* flow control. [4 marks]
- (c) What happens if a flow using window-based flow control passes through a highly-loaded switch or router? You may assume the switch or router does not participate in the flow control protocol. [4 marks]
- (d) How is this addressed in the TCP protocol? [4 marks]
- (e) What are the advantages and disadvantages of having Internet routers participate in window-based flow control of every TCP connection? [4 marks]