

2005 Paper 6 Question 3

Digital Communication I

- (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 window-based flow control is used on a flow passing through a highly loaded resource (e.g. router) that is not participating in the flow control protocol? [4 marks]
- (d) How is this addressed in the Internet? [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]