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TECHNOLOGICAL UNIVERSITY DUBLIN
KEVIN STREET CAMPUS

BSc. (Honours) Degree in Computer Science
BSc. (Honours) Degree in Computer Science (International)

Year 3

SAMPLE EXAMINATION QUESTIONS

Client Server Programming

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(2)

1. Explain the role of *RTT* and *RTO* timers in the TCP layer. In your answer, explain the inter-relationship between these timers and their association with network traffic. (10 marks)
2. Explain how data moves between remote applications in Full Duplex mode. In your answer identify the interaction between each of the protocol layers and, identify and explain the role and management of data buffers within the Application and Transport layers. (12 marks)
3. Explain the lifecycle of a socket from the perspective of client and server applications. In your answer explain the purpose of the socket and identify all primitives involved in the management of a socket's lifecycle from creation to termination. (10 marks)