## **IS F462 Network Programming Final Exam**

Winter 2022 – 23 May 07, 2022 02:00 – 04:00 PM Max Marks: 40

Name:		Roll No:
Ins	<ul> <li>Write your name and roll number before we</li> <li>Write answers briefly and to the point in the poi</li></ul>	
1.	What is a stateless network protocol for two of the protocol robust? (2 marks)	communicating hosts? (2 marks) How being a stateless make
2.	What does sequence number refer to in the T refer to? (2 marks)	CP header? (2 marks) What does the ACK sequence number
3.	Give a scenario when a receiver does not send (4 marks)	an FIN but sends ACK in response to a FIN from the sender?
4.	Give a scenario when having a large window in	n the sliding window is efficient? (4 marks)

5.	Why an IP address is called a logical address? (2 marks) Which protocol translates logical address into a physical address? (2 marks)
6.	Under which circumstance will a node not know its own IP address? (2 marks) Why does a node need an IP address? (2 marks)
7.	In DHCP, wow can an attacker divert a host's connection to a malicious host? (4 marks)
8.	What information is public in the Diffie-Hellman key exchange protocol? (4 marks)

9.	How is a digital signature on a message computed? (4 marks)
10.	How is non-repudiation different from authentication? (2 marks) How to achieve non-repudiation? (2 marks)