

## COMPUTER SCIENCE AND ENGINEERING

## Indian Institute of Technology, Palakkad

CS4150: Computer Networks Lab Lab 11 (RSA and Digital Signature)

28 Oct, 2020

Time: 60 hrs

1.	Write a code to generate the public and private keys, using RSA, for two users <b>A</b> and <b>B</b> . Store	
	these keys as ASCII in the files A.pub, A.pri, B.pub and B.pri.	[50

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2. A wants to digitally sign a message and securely send it to B. Write a code that will sign and encrypt the ASCII text in file message.txt. Store the signed and encrypted text as ASCII in the file secret.txt. Note: You are required to use the keys generated in the previous question.

[25]

3. Write a code that will decrypt the message in secret.txt and verify if the message was indeed sent by A. If the verification is successful, your code should print the original message from A. Else, your code should print the text Message not verified. Note: You are required to use the keys generated in the first question.

[25]