**RSA**

Q1)

A screen shot of a computer program

AI-generated content may be incorrect.

Output :

**A screen shot of a computer code

AI-generated content may be incorrect.**

Q2)

A screen shot of a computer program

AI-generated content may be incorrect.

Output :  
A black screen with white text

AI-generated content may be incorrect.

Q3)

A screen shot of a computer program

AI-generated content may be incorrect.

Output :

A screenshot of a computer program

AI-generated content may be incorrect.

Q4)

A computer screen shot of a program

AI-generated content may be incorrect.

Output :

A screenshot of a computer program

AI-generated content may be incorrect.

Comments : The signature S=1459 was verified using Alice’s public key (e=169,n=2479), resulting in M′=1233.

Since the expected message was M=1234, and the recovered message from the signature does **not** match (M′≠M), we conclude that:

This signature was not generated using Alice’s private key.  
Therefore, it cannot be considered authentic, and may have been forged or created with a different key.

**Diffie-Hellman**

Q1)

A screen shot of a computer program

AI-generated content may be incorrect.

Output:

A screenshot of a computer program

AI-generated content may be incorrect.

Q2)

A screen shot of a computer program

AI-generated content may be incorrect.

Output:

A screenshot of a computer program

AI-generated content may be incorrect.

**El-Gamal**

Q1)

A screenshot of a computer program

AI-generated content may be incorrect.

Output:

A screen shot of a computer code

AI-generated content may be incorrect.

Q2)

A screen shot of a computer program

AI-generated content may be incorrect.

Output:

A screenshot of a computer program

AI-generated content may be incorrect.