COLLEGE OF ENGINEERING

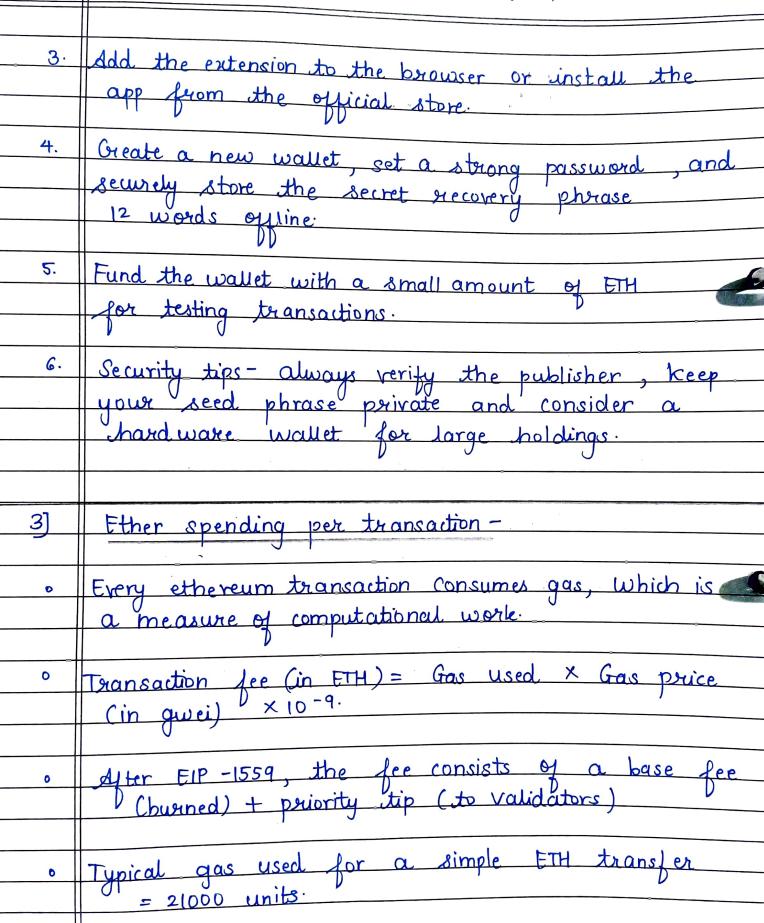
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Practical - 01. Aim: Installation of Metamask and study spending ether per transaction. Metamask. -Metamask is a free, open source wallet and browser extension that lets users interact with the ethereum blockchain and store ETH and tokens. It is available as a browser extension for chrome, Firefox, edge, brave and as a mobile app for android and Ios.

- It provides a built in interface to send precione funds, connect to dApps, and sign transactions securely.
- Installation steps:

Theory:

- 1. Visit metamask.io (official site).
- 2. Click download finstall and select your browser or mobile platform.



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0	Gas price fluctuates based on network demand (quoted in gwei).
0	Fee in fiat = Transaction fee (ETH) × Curvent ETH Price (USD INR).
•	Users can view the estimated fee before sending in Metamask and the exact fee after sending by clicking View on Etherscan.
4)	How to study ETH spend -
0	Send a small test transaction from your Metamask wallet In metamask, open the transaction details and
	click view on Etherscan.
•	On etherscan note— o Gas used by transaction. o Gas price effective gas price. o Transaction fee in ETH and USD (displayed automatically).
0	Apply the formula to calculate or verify the
b	Use gas trackers (eg. Ether scan gas tracker to

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0	Try layer 2 networks (optimism, Arbitrum) for lower jees.
*	CONCLUSION:
	Metamask was successfully installed and set up a providing a secure interface to interact with the ethereum blockchain. By observing a sample transaction in Metamask and on etherscan, the ether spent per transaction can be accurately measured using the formula fee = gas used × gas price ×10-9 ETH. This allows users to estimate and minimize transaction costs. (by adjusting gas price, timing or using layer 2 networks).
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