

NTSE 2021-22 PRACTICE SHEET
 TOPIC-MOLE CONCEPT NUMERICALS
 PREPARED BY- POOJA NARULA NTSE RP LUDHIANA



QUESTIONS

ANSWERS

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| 1. Calculate the mass of 12.044×10^{23} carbon atoms. | |
| 2. Calculate the number of molecules in 11.2 liters of SO_2 gas at NTP. | |
| 3. Calculate the number of oxygen atoms in 1 mole of O_2 . | |
| 4. What is the volume occupied by 6.022×10^{23} molecules of any gas at NTP? | |
| 5. Calculate the number of atoms in 100 u of He. | |
| 6. Calculate the number of Cu atoms in 0.635g of Cu. | |

3.011×10^{23} molecules.

25 atoms.

12.044×10^{23} atoms.

22.4 L at NTP.

6.022×10^{21} atoms.

24 g.