**BLOG WORKSHEET**

**CHEMISTRY CLASS 9**

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Q.1.Choose the best answer

1. The formulae of the ions of four elements are shown below.

O2 –, F –, Li+, Mg2+

Which statement about these ions is correct?They all have

1. The same number of electrons in their outer shells.
2. The same electronic structure as a noble gas.
3. The same number of protons in their nuclei.
4. More electrons than protons
5. Compared to the charge and mass of a proton, an electron has \_\_\_\_\_\_.
6. the same charge and a smaller mass
7. the same charge and the same mass
8. an opposite charge and a smaller mass
9. an opposite charge and the same mass
10. A neutron has approximately the same mass as a \_\_\_\_\_.
11. an alpha particle
12. a beta particle
13. an electron
14. a proton
15. Which symbols represent atoms that are isotopes?
16. C-14 and N-14
17. O-16 and O-18
18. I-131 and I-131
19. Rn-222 and Ra-222
20. An ion with 5 protons, 6 neutrons, and a charge of 3+ has an atomic number of \_\_\_\_\_.
21. 5
22. 6
23. 8
24. 11
25. An atom has a mass number of 23 and atomic number 11. The number of protons are\_\_\_\_\_\_\_\_\_.
26. 11
27. 12
28. 23
29. 44
30. The mass of the atom is determined by\_\_\_\_\_\_\_\_.
31. neutrons
32. neutrons and protons
33. electrons
34. electrons and neutrons
35. The proton is heavier than an electron by\_\_\_\_\_\_\_\_\_\_\_.
36. 1850 times
37. 1840 times
38. 1000 times
39. 100 times
40. Carbon-12 atom has\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
41. 6 electrons, 12 protons, 6 neutrons
42. 12 electrons, 6 protons, 6 neutrons
43. 6 electrons, 6 protons, 6 neutrons
44. 18 electrons, 6 protons and 6 neutrons
45. During a chemical reaction, atomic number (proton number)\_\_\_\_\_\_\_\_\_.
46. changes
47. remains the same
48. changes and then is restored
49. changes alternately