

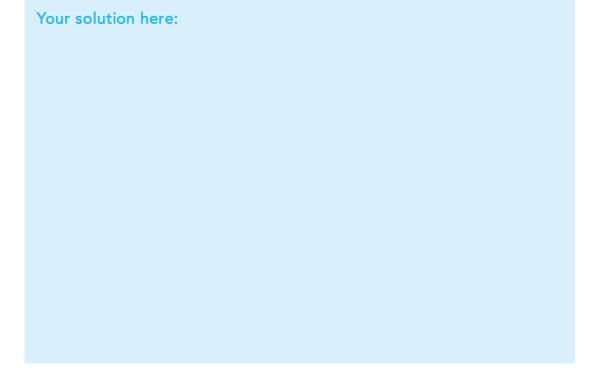


01

The particles present in four atoms are given below in the table.

Atoms	Particles in one atom			
Atoms	Neutrons	Protons	Electrons	
Р	10	10	10	
Q	12	11	11	
R	12	10	10	
S	12	12	?	

- (a) (i) How many electrons are there in one atom of S?
 - (ii) What is the nucleon number of S?
 - (iii) Identify atom S and give its correct symbol.
- (b) Which atoms are isotopes?







02

Use the information given below in the table to answer the following questions.

Elements	Р	Q	R	S	Т	U
Proton number	7	8	10	12	15	18

- (a) Which of these elements have three filled electron shells?
- (b) Which of these elements have a complete outer shell?
- (c) Which of these elements have 5 valence electrons?
- (d) Which of these elements has a dual valency?

Your solution horse

Tour solution here.	







03

The table given below shows the information of five elements P,Q,R,S and T.

Elements	Atomic number	Nucleon number	Electronic configuration
Р	4	9	
Q	19	39	
R	17	35	
S	8	16	
Т	18	40	

- (a) Write the electronic configuration of elements P to T in the last column of the above table.
- (b) Which elements are poor conductors of electricity?
- (c) Which element has an octet electronic structure?
- (d) Which element has the least number of valence electrons?

Your solution here:







04

One of the isotopes of an element X has a proton (atomic) number of 16 and a nucleon (mass) number of 32.

- (a) What is meant by the term isotopes?
- (b) The other isotope is X-36. complete the table given below about this isotope

Number of protons	
Number of neutrons	
Number of electrons	
Electronic configuration	

Your solution here:	

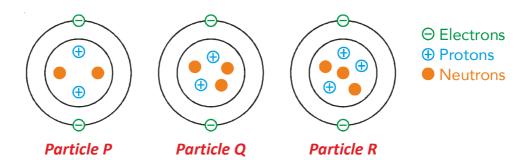






05

The diagrams given below show the atomic structures of different particles.



- (a) (i) Name the term that describes the relationship between particles P and Q.
 - (ii) Give one similarity and one difference between particles P and Q.
- (b) (i) State one similarity of particles P, Q and R.
 - (ii) Does particle R have the similar relationship with particle P the same way as particle Q with particle P in (a) (i)? Explain your answer.

Your solution here:

