

## Arjuna JEE 2026

Chemistry  
Mole Concept

DPP: 2

**Q1** The number of neutrons present in deuterium is:

- (A) 0 (B) 1  
(C) 2 (D) 3

**Q2** Calculate the number of protons, neutrons and electrons in  ${}_{19}^{39}\text{K}$ .

**Q3** Calculate the number of electrons, protons and neutrons in (i) phosphorus atom (ii) phosphate ion.

Mass numbers: **P = 31, O = 16**

Atomic numbers: **P = 15, O = 8**

**Q4** Calculate the number of protons, electrons and neutrons in the following:

Chloride ion ( $\text{Cl}^-$ ) with **Z = 17, A = 35**

**Q5** What is the symbol of the species with number of electrons equal to 36, protons equal to 35 and neutron equal to 45?

**Q6** The charge on the chemical species containing 7 protons, 8 neutrons and 8 electrons is

- (A) -1 (B) +1  
(C) zero (D) -2

**Q7** Select the sub-atomic particles that are present in the nucleus of an atom.

- (1) Electrons

(2) Protons

(3) Neutrons

- (A) Only 2 (B) Only 3  
(C) Both 1 and 2 (D) Both 2 and 3

**Q8** Among the following the lightest subatomic particle is:

- (A) Electron (B) Neutron  
(C) Proton (D) Deuteron

**Q9** Significant figures in 0.00051 are

- (A) 5 (B) 3  
(C) 2 (D) 4

**Q10** How many significant figures are in **0.0008**?

- (A) **1** (B) **2**  
(C) **3** (D) **4**

**Q11** Round off 0.1525 upto three significant figures

- (A) 0.153 (B) 0.152  
(C) 0.16 (D) 0.15

**Q12** Add (**0.001 + 0.02**) upto the correct number of significant figures

- (A) 0.021 (B) 0.02  
(C) 0.003 (D) 0.001

**Q13** **1 m<sup>3</sup>** is equal to

- (A) 100 litre (B) 10000 litre  
(C) 10 litre (D) 1000 litre



# Answer Key

- Q1 B
- Q2  $e = 19, p = 19$  and  $n = 20$
- Q3  $p=15$   $e=15$   $n=16$  ;  $p=47$   $e=50$   $n=48$
- Q4  $P=17; e=18; n=18$
- Q5  ${}^{80}_{35}\text{Br}^-$
- Q6 A

- Q7 D
- Q8 A
- Q9 C
- Q10 A
- Q11 B
- Q12 B
- Q13 D

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