

Book For
Central Reserve Police Force



CRPF SI Chemistry Sample Paper



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(1) The number of moles of solute present in 1 kg of a solvent is called its

- [A] molality
- [B] molarity
- [C] normality
- [D] formality

Answer : [A]

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(2) The molecules of which gas have highest speed?

- [A] H₂ at -73°C
- [B] CH₄ at 300 K
- [C] N₂ at 1,027°C
- [D] O₂ at 0°C

Answer : [A]

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(3) The metal that is used as a catalyst in the hydrogenation of oils is

- [A] Ni
- [B] Pb
- [C] Cu
- [D] Pt

Answer : [A]

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(4) The ore which is found in abundance in India is

- [A] monazite
- [B] fluorspar
- [C] bauxite
- [D] magnetite

Answer : [A]

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(5) The inherited traits of an organism are controlled by

- [A] RNA molecules

- [B] nucleotides
- [C] DNA molecules
- [D] enzymes

Answer : [C]

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(6) The number of water molecules present in a drop of water (volume 0.0018 ml) at room temperature is

- [A] 1.568×10^3
- [B] 6.023×10^{19}
- [C] 4.84×10^{17}
- [D] 6.023×10^{23}

Answer : [B]

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(7) The most malleable metal is

- [A] platinum
- [B] silver
- [C] iron
- [D] gold

Answer : [D]

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(8) The mass number of a nucleus is

- [A] always less than its atomic number
- [B] the sum of the number of protons and neutrons present in the nucleus
- [C] always more than the atomic weight
- [D] a fraction

Answer : [B]

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(9) The items amenable to detection by soft x-rays are

- [A] contrabands
- [B] lead in bullets
- [C] narcotics
- [D] genuine coins from counterfeit coins

Answer : [D]

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(10) The first metal used by man was

- [A] iron
- [B] copper
- [C] gold
- [D] bronze

Answer : [B]

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(11) The graphite rods in the nuclear reactor

- [A] react with U to release energy
- [B] produce neutrons
- [C] undergo combustion which triggers the nuclear fission
- [D] convert fast moving neutrons into thermal neutrons

Answer : [D]

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(12) The molecule which has the highest percentage of ionic character among the following is

- [A] HI
- [B] HF
- [C] HCl
- [D] HBr

Answer : [B]

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(13) The main chemical constituent of the oil of cardamom which is responsible for flavour of this oil is

- [A] cineole
- [B] eugenol
- [C] geraniol
- [D] limonene

Answer : [A]

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(14) The mineral containing both magnesium and calcium is

- [A] magnesite
- [B] calcite
- [C] carnallite
- [D] dolomite

Answer : [D]

(15) The hardest form of carbon is

- [A] coke
- [B] graphite
- [C] diamond
- [D] charcoal

Answer : [C]

(16) The number of electrons presents in H^+ is

- [A] zero
- [B] one
- [C] two
- [D] three

Answer : [A]

Explanation:

H^+ is a hydrogen ion, and it is an ion because it LOST an electron. Electrons are negatively charged. When an atom gains electrons it will have NEGATIVE charges.

So it has zero electron.

(17) The number of waves made by an electron moving in an orbit having maximum magnetic quantum number is +3

- [A] 4
- [B] 5
- [C] 2
- [D] zero

Answer : [A]

(18) The number of atoms present in 21.6 gram of silver (atomic weight = 108) are same as the molecules in

- [A] 1.8 gram of H_2O
- [B] 12 moles of $KMnO_4$
- [C] 0.6N H_2SO_4
- [D] 4.6 gram of C_2H_5OH

Answer : [B]

(19) The molecular formula of phosphorous is

- [A] P_1

[B] P₂

[C] P₃

[D] P₄

Answer : [D]

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(20) The maximum number of covalent formed by nitrogen is

[A] 1

[B] 2

[C] 3

[D] 4

Answer : [D]

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