

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	The number of electrons in the M shell of the element with atomic number 24 is	A. 24 B. 12 C. 13 D. 8
2	The dimension of rate constant of second order reaction involves	A. Neither time nor concentration B. Only time C. Time and concentration D. Time and square of concentration
3	The symbol of the element whose atoms have the outer most electronic configuration $2s^2sp^3$ is	A. N B. Li C. P D. Na
4	The number of atoms in 0.004 g of magnesium is close to	A. 24 B. 2×10^{20} C. 10^{20} D. 6.02×10^{23}
5	Phosphorus pentoxide finds use as	A. An oxidizing agent B. A reducing agent C. a bleaching agent D. A dehydration agent.
6	Gooch crucible is used for the filtration of precipitates having	A. High Solubility B. High concentration C. High ignition temperature D. Low Temperature
7	Which is true for an element R present in group 13 of the periodic table?	A. It is a gas at room temperature B. It has oxidation state of +4 C. It forms R_2O_3 D. It forms RX_2
8	Which of the following statements is most appropriate about effective nuclear charge? It depends upon	A. The shielding constant B. The atomic number C. The charge on the nucleus D. Both the nuclear charge and the shielding
9	Ozone is not	A. An allotrope B. A powerful oxidizing agent C. Paramagnetic D. a bent molecule
10	Which of the following statement regarding catalyst is not true?	A. A catalyst remains unchanged in composition and quantity at the end of the reaction B. A catalyst can initiate a reaction C. A catalyst does not alter the equilibrium in a reversible reaction D. Catalysts are sometimes very specific in respect of reaction.
11	Covalent compounds are soluble in	A. Polar solvents B. Non-polar solvents C. Concentrated acids D. All solvents
12	Which is not a colligative property?	A. Osmotic pressure B. Lowering of vapour pressure C. Depression of freezing point D. Elevation of boiling point
13	The treatment of benzene with isobutene in the presence of sulphuric acid give	A. isobutyl benzene B. tert-Butyl benzene C. n- Butyl benzene D. no reaction
14	Outermost shells of two elements X and Y have two and six electrons respectively. If they combine, the expected formula of compound will be	A. XY B. X_2Y C. X_2Y_3 D. XY_3

D. XY_2Z

15 Which metal is protected by a layer of its own oxide?

- A. Al
- B. Ag
- C. Au
- D. Fe

16 Sea weeds are important source of

- A. Iron
- B. Chlorine
- C. Iodine
- D. Bromine

17 The ratio of the ionization energy of H and Be^{3+} is

- A. 1 : 1
- B. 1 : 3
- C. 1 : 9
- D. 1 : 16

18 Al is more reactive than Fe but Al is less easily corroded than Fe because

- A. It is a noble metal
- B. oxygen forms a protective reaction easily with water
- C. Iron undergoes reaction easily with water
- D. Fe form mono and divalent ions.

19 Wholer prepared urea from

- A. Ammonia
- B. NH_4CNO
- C. NH_3
- D. Uric acid

20 Causticisation process is used for the preparation of

- A. Caustic soda
- B. Caustic potash
- C. Baryata solution
- D. Slaked lime