

ONE MARK TEST -1**CLASS : XI****(BOOK BACK)****TIME : 30MINTS****SUB : CHEMISTRY****(L.NO : 2,3,4,5,6,8,10,12,13,14)****MARKS : 30****Choose the correct answer.****30 X 1 = 30**

- Splitting of spectral lines in an electric field is called
 - Zeeman effect
 - Shielding effect
 - Compton effect
 - Stark effect
- The maximum number of electrons in a sub shell is given by the expression.
 - $2n^2$
 - $2l + 1$
 - $4l + 2$
 - none of these
- How many electrons in an atom with atomic number 105 can have $(n + 1) = 8$
 - 30
 - 17
 - 15
 - unpredictable
- What would be the IUPAC name for an element with atomic number 222?
 - bibibium
 - bididium
 - didibium
 - bibibium
- In a given shell the order of screening effect is
 - $s > p > d > f$
 - $s > p > f > d$
 - $f > d > p > s$
- Which of the following pairs of elements exhibit diagonal relationship?
 - Be and Mg
 - Li and Be
 - Be and B
 - Be and Al
- Non-stoichiometric hydrides are formed by
 - palladium, vanadium
 - carbon, nickel
 - manganese, lithium
 - nitrogen, chlorine
- Heavy water is used as
 - moderator in nuclear reactions
 - coolant in nuclear reactions
 - both (a) and (b)
 - none of these
- The hardness of water can be determined by volumetrically using the reagent
 - sodium thio sulphate.
 - hydrogen peroxide
 - potassium permanganate
 - EDTA
- The suspension of slaked lime in water is known as
 - lime water
 - milk of lime
 - quick lime
 - aqueous solution of slaked lime
- Assertion Reason : Generally alkali and alkaline earth metals form superoxides : There is a single bond between O and O in superoxides.
 - both assertion and reason are true and reason is the correct explanation of assertion
 - both assertion and reason are true but reason is not the correct explanation of assertion
 - assertion is true but reason is false
 - both assertion and reason are false

12. Assertion Reason : Generally alkali and alkaline earth metals form superoxides : There is a single bond between O and O in superoxides.
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13. Maximum deviation from ideal gas is expected from
- CH₄ (g)
 - NH₃ (g)
 - H₂ (g)
 - N₂ (g)
14. If temperature and volume of an ideal gas is increased to twice its values, the initial pressure P becomes
- 4P
 - 2P
 - P
 - 3P
15. Use of hot air balloon in sports and meteorological observation is an application of
- Boyle's law
 - Newton's law
 - Kelvin's law
 - Brown's law
16. Solubility of carbon dioxide gas in cold water can be increased by
- increase in pressure
 - decrease in pressure
 - increase in volume.
 - none of these
17. Which of the following is not a general characteristic of equilibrium involving physical process
- Equilibrium is possible only in a closed system at a given temperature
 - The opposing processes occur at the same rate and there is a dynamic but stable condition
 - All the physical processes stop at equilibrium
 - All measurable properties of the system remains constant
18. Consider the following reversible reaction at equilibrium, $A + B \rightleftharpoons C$, If the concentration of the reactants A and B are doubled, then the equilibrium constant will
- be doubled
 - become one fourth
 - be halved
 - remain the same
19. According to VSEPR theory, the repulsion between different parts of electrons obey the order.
- $l.p-l.p > b.p-b.p > l.p-b.p$
 - $b.p-b.p > b.p-l.p > l.p-b.p$
 - $l.p-l.p > b.p-l.p > b.p-b.p$
 - $b.p-b.p > l.p-l.p > b.p-l.p$
20. Shape and hybridisation of IF₅ are

- a) Trigonal bipyramidal, Sp^3d^2 . b) Trigonal bipyramidal, Sp^3d
c) Square pyramidal, Sp^3d^2 . d) Octahedral, Sp^3d^2
21. Which of the following molecule contain no π bond?
a) SO_2 b) NO_2 . c) CO_2 d) H_2O
22. Homolytic fission of covalent bond leads to the formation of
(a) electrophile (b) nucleophile. (c) Carbo cation. (d) free radical
23. Which of the following species is not electrophilic in nature?
(a) Cl^+ (b) BH_3 (c) H_3O^+ (d) $+NO_2$
24. Hyper Conjugation is also known as
(a) no bond resonance (b) Baker - nathan effect
(c) both (a) and (b) (d) none of these
25. Which among the following alkenes on reductive ozonolysis produces only propanone ?
a) 2 - Methyl propene b) 2 - Methyl but - 2 - ene
c) 2, 3 - Dimethyl but - 1 - ene d) 2, 3 - Dimethyl but - 2 - ene
26. Which of the following compounds will not undergo Friedal - crafts reaction easily ?
a) Nitro benzene b) Toluene c) Cumene d) Xylene
27. An alkane is obtained by decarboxylation of sodium propionate. Same alkane can be prepared by
a) Catalytic hydrogenation of propene
b) action of sodium metal on iodomethane
c) reduction of 1 - chloro propane
d) reduction of bromomethane
28. Of the following compounds, which has the highest boiling point?
a) n-Butyl chloride. b) Isobutyl chloride
c) t-Butyl chloride. d) n-propyl chloride
29. C -X bond is strongest in
a) Chloromethane. b) Iodomethane c) Bromomethane. d) Fluoromethane
30. Freon-12 is manufactured from tetrachloro methane by
a) Wurtz reaction. b) Swarts reaction
c) Haloform reaction d) Gattermann reaction

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