

S.No	Question	Answer
1	Valence Bond Theory was proposed by	Pauling
2	Lithium, sodium and....are Dobereiner's triads	K (Potassium)
3	IV Group elements are called	Carbon Family
4	An element x belongs to the 2nd group and 3rd period. What is valency?	2
5	The maximum number of electrons in the 'M' shell is..	18
6	Which of the following orbitals does not exist?	2d ³
7	Niels Bohr received the Nobel Prize in	Physics
8	The number of degenerate orbitals present in the 4d subshell is....	5
9	The presence of 3 unpaired electrons in nitrogen can be explained by....principle	Hund
10	Which of the following can be used as an acid-base indicator to detect the acidic or basic nature of the solution?	Litmus
11	If the pH of rainwater is less than...., then it is called acid rain	5.6
12	Tooth Enamel is made up of	Calcium Phosphate
13	What do you observe on pouring potassium hydroxide on red and blue litmus paper?	Red litmus turns to blue and blue litmus turns to red
14	What is the structural formula of the simplest ketone?	CH ₃ COCH ₃
15	Identify the dimethyl ether	CH ₃ OCH ₃
16	Saturated hydrocarbons contain	all single bonds
17	Aliphatic hydrocarbons are	open chain hydrocarbons
18	The poling process is used to	Purify the crude metal
19	Corrosion of silver results in the formation of	Silver sulphide
20	During corrosion, a metal will	be oxidised
21	Replacing one hydrogen from NH ₃ by alkyl will result in the formation of	amine
22	Linus Pauling proposed the concept of	hybridization
23	The electronic configuration of the O ⁻² ion is	1s ² , 2s ² , 2p ⁴
24	The number of electrons gained by a non-metallic element is equal to its	group number
25	Irrespective of the position of the object on the principal axis, a concave lens always forms an image of nature	virtual, erect
26	The lens which is bounded by the one-curved surface is	bi-convex (answer doubt)
27	The angle between paraxial rays and the principal axis is	Zero Degrees (0°)
28	Splitting of white light into VIBGYOR colours is called	Dispersion
29	A convex lens gives a virtual image when the object is placed	between the focal point and

	on the principal axis	optic centre
30	The formation of dew and fog is due to the process of	condensation
31	A light ray bends away from normal when it travels from	water to air
32	If v_1 and v_2 are the speed of light in the two media of refractive indices n_1 and n_2 respectively, then	$v_1/v_2 = n_1/n_2$ (answer doubt)
33	The C.G.S. Unit of Heat Energy is	Calorie
34	The pair of substances which have the same value of specific heat is	ice, kerosene oil
35	During the process of conversion from liquid to solid, the internal energy of water	decreases
36	The magnetic force acting on a moving charge in a magnetic field is a product of three quantities namely	charge, speed, electromagnetic force (answer doubt)
37	An auto driver started an auto rickshaw with the help of pulling a rope. The device used by him to convert mechanical energy into electrical energy is	dynamo
38	Faraday's law of electromagnetic induction is a consequence of	Conservation of energy
39	A freely suspended needle of a magnetic compass comes to rest along the geographic	north-south direction
40	1 telsa =	One Weber per square metre
41	The phenomenon of electromagnetic induction involves the process of	producing induced current in a coil
42	6 watt x second =	6 joule
43	The relationship between current and voltage is established by the scientist	Ohm
44	The electric energy consumed in operating a bulb of 40W for 5 hours a day in a month of 30 days	12
45	Which of the following is not a measuring function of a multimeter	Current
46	In old age, the value of the least distance of distinct vision shifts to	smaller value
47	Electric power is the product of current and	Potential Difference (Answer doubt)
48	The light which has the maximum angle of deviation	Violet
49	The blue colour of the sky is due to the scattering of light by the atmospheric molecules of	N_2 and O_2
50	The power of a lens of focal length 20 cm is	5 D
51	In hypermetropia defect, the image formed is	before the retina
52	For the human eye, 2.5 cm is the distance between	eye-lens and retina

51	The HCF of 306 and 657 is	9
52	The value of $\log_2 32$ is	5
53	The remainder when the square of any prime number greater than 3 is divided by 6 is	1
54	If the mode and mean of the data are 24 and 60 respectively, then the median of the data is	48