

Chemical Bonding - I & II

Level – 1		DTS 1 - 5
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
B	A	B	D	D	B	A	D	A	D	B	C	AC	B	C
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D	D	B	B	C	D	B	C	B	C	D	D	A	C	B
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
C	D	C	D	B	C	C	D	A	C	C	B	A	B	D
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
C	A	D	B	C	D	A	A	D	C	D	B	D	D	B
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
A	D	B	D	B	D	A	C	B	B	A	B	D	B	D

Level – 2		DTS 6 - 10
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76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
C	A	B	D	C	B	ABD	ABCD	ABC	A	A	C	D	C	AD
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
D	D	C	B	A	B	C	B	B	B	D	A	A	C	C
106	107	108	109	110	111	112	113	114	115		116		117	
B	CD	B	B	A	B	ABC	ABD	AC	D		D		A	
118	119		120		121		122		123		124		125	
B	C		B		B		ABC		D		C		C	

Numerical Value Type		DTS 11
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126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
2	1	3	2	4	2	1	4	4	8	4	1	5	4	7

JEE Main (Archive)		DTS 1 - 4
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	B	A	A	B	A	C	B	B	A	A	B	B	A	D
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
A	C	D	B	B	D	C	C	A	B	D	C	B	D	B
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
C	B	C	B	B	B	B	D	C	A	B	A	C	B	D
46	47	48	49	50	51	52	53	54	55					
B	A	A	B	C	B	A	C	A	A					
56	57	58	59	60	61	62								
A	A	B	A	A	B	C								

JEE Advanced (Archive)		DTS 1 - 6
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1						2	3	4	5	6				
Melting point, Boiling point, Solubility, conductivity in aq. solution						ABC	A	AB	C	HCOOH and CH ₃ COOH				
7	8	9	10	11	12	13				14	15	16	17	18
CO ₂	sp ³	A	A	2	D	Based on octet completion				B	T	B	T	C
19	20	21	22	23	24	25	26	27	28	29	30	31		
AB	D	F	F	A	A	C	A	A	B	sp	Ag ⁺	Triangular planar		
32	33				34			35	36	37		38	39	
F	Increase polar character				S < Cl < N < O < F				I ₂	BCD	Li ⁺ > Al ³⁺ > Mg ²⁺ > K ⁺		B	A
40	41	42	43			44		45	46					47
AC	F	F	4.16 × 10 ⁻²⁹ , 80.2%			3C – 2e ⁻		F	LiF → more ionic, LiI → more covalent					C
48	49	50			51		52	53	54	55	56		57	
D	B	Increase Decrease			N ₂ O, I ₃ ⁻		B	C	B	C	C		A	
58					59				60	61	62	63	64	
H ₂ S → V-shaped, PCl ₃ → pyramidal					sp ³ , V – shaped, F = –1, O = +2				B	B	D	D	A	

65			66						67	68	69	70	71	72
2, paramagnetic			XeF ₂ → linear, XeF ₄ → square planar XeO ₂ F ₂ → See-Saw						A	D	AC	B	A	B
73	74	75	76								77	78		
C	A	A	PCl ₅ → triangular bipyramidal, BrF ₅ → square pyramidal								C	O ₂ ⁺ < O ₂ < O ₂ ⁻		
79					80	81	82	83	84	85				
XeF ₄ → square planar OSF ₄ → triangular bipyramidal					A	NO	D	D	A	A-P,Q,R,T; B-Q,R,S,T; C-P,Q,R; D-P,Q,R,S				
86	87	88	89	90	91	92	93	94	95	96	97	98		
A	0	D	AB	C	ABD	C	4	BC	AC	6	5	CD		