

Classification of Elements & Periodicity in Properties

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

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

Numerical Value Type		DTS 11
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126	127	128	129	130	131	132	133	134	135	136	137	138
4	7	16	3	8	7	6	8	4	3	7	3	2

JEE Main (Archive)		DTS 1
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1	2	3	4	5	6	7	8	9	10	11	12	13
C	C	B	B	B	C	D	A	A	D	A	C	C

JEE Advanced (Archive)									DTS 1 - 2			
1		2	3						4			
Electron Affinity		B	(i) $O^{2-} > F^- > Na^+ > Mg^{2+}$, (ii) $Na < Al < Mg < Si$, (iii) $N_2 < O_2 < F_2 < Cl_2$						Electronegativity			
5	6		7		8	9	10	11	12	13	14	15
T	$I.E_1\ Zn > Cu$, $I.E_2\ Cu > Zn$		$Ca^{2+} < Ar < Cl^- < S^{2-}$		F	C	A	A	A	ACD	ABC	D
16			17	18			19	20			21	
Stability of complete filled B			B	$Mg^{2+} < Na^{2+} < F^- < O^{2-} < N^{3-}$			D	Higher effective nuclear charge			F	
22	23	24		25	26	27		28		29		30
F	D	Inert pair effect		B	C	D		C		B		C