L1-CHEMR





Level 1 Chemistry, 2016

2.00 p.m. Monday 21 November 2016

RESOURCE BOOKLET for 90933 and 90934

Refer to this booklet to answer the questions in your Question and Answer Booklets.

Check that this booklet has pages 2 and 3 in the correct order and that neither of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

Activity series

Ca Mg Al Zn Fe Pb (H) Cu Ag

Solubility rules

nitrates, NO ₃	All soluble
chlorides, Cl	All soluble except AgCl, PbCl ₂
iodides, I	All soluble except AgI, PbI ₂
sulfates, SO_4^{2-}	All soluble except BaSO ₄ , PbSO ₄ , CaSO ₄
hydroxides, OH	All insoluble except KOH, NaOH
carbonates, CO ₃ ²⁻	All insoluble except K ₂ CO ₃ , Na ₂ CO ₃

Table of ions

+1	+2	+3	-3	-2	-1
NH ₄ ⁺	Ca ²⁺	A1 ³⁺		O ²⁻	OH_
Na ⁺	Mg ²⁺	Fe ³⁺		S ²⁻	Cl ⁻
K ⁺	Cu ²⁺			CO ₃ ²⁻	Г
Ag ⁺	Pb ²⁺			SO ₄ ²⁻	NO ₃
H^{+}	Fe ²⁺				HCO ₃
Li ⁺	Ba ²⁺				F ⁻
	Zn ²⁺				

PERIODIC TABLE OF THE ELEMENTS

18	2 He	10 Ne	18 Ar	36 Kr	54 Xe	86 Rn	
_	17	9 F	17 CI	35 Br	53 I	85 At	
	91	© 8	16 S	34 Se	52 Te	84 Po	116 Lv
	15	Z	15 P	33 As	51 Sb	83 Bi	
	14) 9	14 Si	32 Ge	50 Sn	82 Pb	114 F1
	13	5 B	13 Al	31 Ga	49 In	81 TI	
			12	30 Zn	48 C d	80 Hg	112 C n
			11	29 Cu	47 Ag	79 Au	Rg
			10	28 Ni	46 Pd	78 Pt	110 Ds
			6	27 Co	45 Rh	77 Ir	109 Mt
г		1	∞	26 Fe	44 Ru	92 Os	108 Hs
	1 H		~	25 Mn	43 Tc	75 Re	107 Bh
	Atomic number		9	24 C r	42 Mo	74 W	Sg
	Atomic		'n	23 V	41 Nb	73 Ta	105 Db
			4	22 Ti	40 Zr	72 Hf	104 Rf
			'n	21 Sc	39 Y	71 Lu	103 Lr
	~	4 Be	12 Mg	20 Ca	38 Sr	56 Ba	88 Ra
	7	3 Li	11 Na	19 K	37 Rb	55 Cs	87 Fr

58	59	p N	61	62	63	64	65	66	67	68	69	70
Ce	Pr		Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb
Th	91	92	93	94	95	96	97	98	99	100	101	102
	Pa	U	N p	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No