Att	
Answer	keys:

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Answer keys:			Cor	nstant variable:	(iii)	<u>App</u>	<u>)aratus</u> : Co	nical	09-2-M-09	D	
			ma	ss of weight		eleo	ctronic bala	ance,	09-2-M-10	А	
9.0	(iii) <u>Apparatus</u> : 1kg weight, cellophane tape, retort stand and clamp,				measuring cylinder,			09-2-M-11	С		
MCQ				watch.			iu stop	09-2-M-12	D		
09-1-M-01	0- <b>1-Μ-01</b> Λ		ruler, steel ball				stances:		09-2-M-13	А	
09-1-M-02	R		bea	aring and thread		Hyc mo	lrochloric a l dm <sup>–3</sup> ) and	acid (1 Lzinc	09-2-M-14	D	
09-1-M-03	Δ		Substances: Brass block and copper block			powder Procedure:		09-2-M-15	D		
09-1-10-04	^				(iv)				09-2-M-16	В	
09-1-W-04		(iv)	Pro	<u>ocedure</u> :		1.	$25 \text{ cm}^3 \text{ of}$	1 mol	09-2-M-17	А	
09-1-101-05			1.	Ball bearing is attached to the			poured in	to	09-2-M-18	А	
Questions				surface of the			conical fla	isk.	09-2-M-19	D	
•				metal block using cellophane tape.			reading is	elle	09-2-M-20	А	
09-1-Q-01	of		2.	1kg weight is held			recorded.		09-2-M-21	А	
electricity	01			50 cm from the		2.	5 g of zinc	powder	09-2-M-22	С	
(b) sacrificial				block using thread.			conical fla	isk	09-2-M-23	С	
protection/zinc	is nan		3.	Weight is released		3.	Stopwatc	h is	09-2-M-24	С	
iron	lan		4	to hit steel ball.			immediat	ely and	09-2-M-25	В	
(c) Bronze is a stror	nger		4.	formed on surface			the mixtu	re in the	09-2-M-26	В	
to the irregular	ber due			of copper block is			conical m shaken.	ask is	09-2-M-27	А	
arrangement of	its		5	measured. Steps 1 to 4 are		4.	Time used	d to	09-2-M-28	С	
atoms			5.	repeated twice on			collect 5 c	cm <sup>3</sup> gas	09-2-M-29	D	
(a) ions are in fixed				the other parts of		5.	The exper	iment is	09-2-M-30	А	
positions/mobil	e		6.	Experiment is			repeated	using	09-2-M-31	В	
electrons carry e	electric			repeated with the			HC <i>l</i> of sar	ne	09-2-M-32	С	
(c) in steel. carbon	atoms			same steel ball bearing on brass			different	molarity.	09-2-M-33	В	
prevent sliding				block.					09-2-M-34	С	
09-1-Q-03		Tas	<u>k 2</u>		0	•0					
Task 1		(i)	<u>Sta</u> pro	<u>tement of the</u> blem:	м	0			Questions		
(i) <u>Statement of the</u>	<u>e</u>		Do	es increasing the					09-2-Q-01		
Does alloying in	crease		cor	ncentration of acid	09-2	2-M-	01	С	(b) P is more re	active	
hardness of met	tals?		rea	ction?	09-2	2-M-	02	В	than Q. moi exothermic	re	
(ii) <u>All the variables</u>		(ii)	Ma	nipulated variable:	09-2	2-M-	03	С	(c) (i) reaction	between I	P
Copper and bras	ss		Cor	ncentration of	09-2	2-M-	04	С	and cop	per(II)	
Responding vari	ables:		Res	sponding variable:	09-2	2-M-	05	D	sultate is exotheri	s more mic	
The size of the c	lent		Rat	e of reaction	09-2	2-M-	06	В	(ii) 0.413 m	ol/dm <sup>3</sup>	
bearing on the b	olock.		Cor	nstant variable:	09-2	2-M-	07	В	(d)p		
			vol	ume of acid	09-2	2-M-	08	В	0.025 dm <sup>3</sup>		
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