Science and Technology 1 2009 March School Level 10th SSC Board Exam

Maharashtra State Board

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	. 8	SCIENCE - I		
lime ; 2 Hrs.)	Question	Paper : March 20)09 (Max. Marks	: 40
lote : See to Ques	tion Paper March 2	008.		
1 : (A) Rewrite	the following state	ments by selecting the corr	ect options :	(2)
(I) X-rays are .	•			
	harged particles	(b) positively charged		
(c) uncharged a		(d) electromagnetic w	aves	32
	onverts solar energ			
- (a) cooker	(b) dryer	(c) heater Ity and magnetism was firs	(d) cell	
(a) Joule	(b) Ohm	(c) Oersted	(d) Flemming	
	ses kinetic energy.		(u) i leitataing	63
(a) Running wa		(b) Water in the lake	at sea level	84
(c) Water in a d		(d) Stone at the foot of	2000 Control 100 C	
(B) Rewrite the	e column li so as to	match the column I :		(2)
Colu	mn I	Column II		
()	on of should	(a) Telescope		
	rve distant object	(b) Anodising technique	· \ ·	
(iii) Name p		(c) Carbon dating		
(iv) Archaed		(d) Megaphone		
	in.	(e) Electroplating		a i
(C) State whet	her the following s	tatements are TRUE or FAL	SE :	(2)
이 이 아파 이 이 같은 것이 같은 것이 안 다 하는 것이 했다.	그 것 같은 것 같이 같은 것 같은 것 같은 것 같이 많을 것 같다.	processes. (ii) The modern fo		
10 I I I I I I I I I I I I I I I I I I I		ildren use solar energy to fly		
e stored ability to	do work.			11 11
(D) Fill in the b	lanks by choosing	the correct option from br	acket :	(2)
(50, 17, 7, 25,	18, 34)	100 M		10 10 10
		in the modern periodic table a	1 Start 1 Star	80
		minimum distance of the refle	ecting surface from the	source
of sound must				
		is about centimeter.		
		cycles per second.	-	
	ntific reasons (any	e atom. (ii) the commercial un	it of nowar is different fr	(4)
		sited at the cathode when cu		
	이 것은 것 같은 것이 같은 것이 집 것 같아야 한 것을 것 같아요. 것	n, we should not touch the wa		aque-
	y two questions fro		all of a building.	(4)
		ise (any two points.)		(.)
		d write its units in MKS and C	CGS system.	
	Decision of the second s	nergy and potential energy (a		
	rt note on ultrasonic	Construction of the second		
				(4)
(iv) Write a sho	following numeric	cal problems (any two) :		1.1
(iv) Write a sho 2. 3. (A) Solve the	· · · · · · · · · · · · · · · · · · ·	cal problems (any two) : for 6 hours, how much electri	cal energy is consume	
(iv) Write a sho 3. (A) Solve the (i) If a 60 W ele	ectric bulb is lighted	승규는 전화 영화 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전		1?

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S.S.C. Question Paper March 2009 - Science - 1

(iii) How much heat energy is required boiling point at 100°C?	to raise the temperature of 2 kg. of water	from 3°C to its		
· · ·	lock of 0.5 kg. How high will it rise ? (Take	$a = 10 m/s^2$		
(B) Answer any one question :		· (4)		
(i) What is refraction of light? State law	ws of refraction of light.	(4		
(ii) Write short notes on :		SK		
(a) Halogen group elements.	(b) Zigzag line in modern periodic table.			
Q. 4. (A) Draw and label the diagram (a		(4)		
(i) Sound waves need a medium	(ii) Solar water heater	•••		
(iii) Simple voltaic cell	(iv) Human eye.			
(B) Answer any one question :	100	(4)		
(i) Obtain an expression for equivale combination. (ii) What are radio isotopes?	ent resistance of three resistances conne ? Give any three uses of radio isotopes.	cted in parallel		
Q. 5. (A) Answer the following question		(4)		
(i) Explain the term; Power of accom	modation of eye. (ii) How many elements			
fourth and fifth periods each ? (iii) State the				
biogas. (v) What is dispersion of light ? (v	i) How does short circuit occur ?			
(B) Answer any one question :		(4)		
(i) Describe the electrolysis of copper	chloride considering the following points			
(a) Defination of electrolysis (b) dia	gram (c) Changes at the electrodes	(d) Inference.		
(ii) Deduce normality equation mather	matically.			
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