	-	laffna zonal Educa	tion Offic	ce	
		Term-1 - 20	020		
Cuedes 7	Unit E	xam-03 (Generati	on of Elec	ctricity)	
Grade: /		Science	}		lime- 40 min
I) Underline the mo	ost annronriate ans	Part-1			
I. The standard	unit of current is	WC1.			
i. Ammeter	ii. Volt	iii. Farad		iv. Ohm	
II. Which type of ce I. Dry cell	ll is found in wrist wa ii. Alkali cells	tch? iii. Bu	tton	iv. Lead aci	d accumulator
III. Which element i	s used to manufactur	e the solar cell?			
i. carbon	ii. Silicon	iii. Boron		iv. Phosphorus	
IV.	The symbol shown in	the figure is			
i. Capacitor	ii. Diode	iii. Light Emitting	Diode	iv. Electric cell	
V. What are the cha	anges in this simple dy	namo that increase	s the defle	ection of galvanometer	?
		a. increasing the number o turns of the coil b. Connecting the power of the magnet c. Decreasing the speed of movement of the magnet		et	
	i. a only	ii. b only	iii. a, b	iv. a, c	
VI. Which type of elec i. Direct curre ii. Alternative iii. Alternative iv. Direct curr	etric current produced with Alternative current current, Direct current e current, Alternative ent, Direct current	I by these figures re It nt current	spective?		
VII. The energy transf	ormation that occurs	in solar cell is			
 i. Heat energy → iii. Chemical energy → VIII. Which is the heat 	Electricity ii. Ligl → Electricity iv. Ki vy metal that releases	nt energy — Electinetic energy — Electinetic energy — Electinetic energy — Electinetic energy () = Electinetic energy (ctricity Electricit e environr	ty nent	
i. Lead ii. I	Nickel iii. Calci	um iv. Merc	ury		
IX. Which substance t	hat is used for positiv	e dry of dry cell?			
i. Carbon ii. Z	inc iii. Mang	anese dioxide iv	. Ammoni	um chloride	
X. The acid that found	l in Lead-acid accumu	lator is			
i. Nitric acid ii. H	ydrochloric acid	iii. Sulphuric acid	iv. Ac	etic acid	(10 x 3 = 30 marks)
II. Select and underlin	ne the suitable word.				
i. The main electricity ii. (Ammeter / Centre iii. (Dry cell/ Dynamo)	supplied to the house Zero galvanometer) i generates alternative	e is (Alternative Curr s used to detect the e current.	rent/ Direc direction	et Current) of electrical current.	

iv. (Solar cell/ Thermal power production) is considered to be eco-friendly power generation system.

v. The direction of standard current flows from (Positive to negative/ negative t positive)

Part- II

I. The given setup was arrange	d by grade 7 students.
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i. Name this set up?

(4 marks)

ii. Identify the terminals of this set up?				
Positive Terminal: Negative Terminal:	(4 marks)			
iii. Mention two observations when the circuit is completed.				
i				
ii				
iv. Mention two weaknesses of this cell?				
i				
ii				
v. Which is the method of power generation I this setup?				
vi. Mention the direction of the standard current in this setup?				
II. The given setup was arranged by the students to identify h dynamo. Setup I setup ii	ow electricity is generated in a			
i. Give three materials needed of this activity?	(6 marks)			
i ii iii				
ii. What precaution is taken by the students before they do this experiment?				
iii. What is your observation in activity I?				
iv. What is your observation in activity?	(4 marks)			
v. Which part of the bicycle dynamo rotates to generate electricity?				
vi. Which principle is based to the generation of electricity in the bicycle dynamo?				

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