

ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Physical Science Class: 8 Date: 17.04.20 Duration: 40 min Worksheet Solutions 10 Full Marks: 15

ATOMIC STRUCTURE/CATHODE RAYS

Choos	e the Correct option	ns:		
1.	At what pressure does a gas become conducting?			
Ans	(a)15 cm Hg	(b) 10 cm Hg	(c) 1 cm Hg	(d) 10 mm Hg
	At what voltage does a gas become conducting?			
	(a) 10V			(d) 10000 V
3.	Apparatus in which	a gas is made cond	lucting is called	
Ans	(a) conducting (tubules	b) charging station	(c) discharge tube	(d) vacuum flask
4.	$oldsymbol{arepsilon}$			
	(a) Erode	· /	. ,	(d) Mode
5.	The tube on the other end of the cathode starts glowing due to the phenomenon of			
Ans	(a)fluorescence	(b)phosphore	escence (c) spec	* /
			emissio	n Dispersion
6.	Scientist who discovered Cathode rays is			
Ans	(a)Dalton		on (c)Neils Bohr	(d) Rutherford
7.	Cathode rays travel as			
Ans	` /	. ,	waves (c) pulses ((d) convection currents
	Cathode rays consist of			
	(a) waves		(c) particle	(d)All of these
	Charge of the catho	•		
Ans	(a) negative		(c) neutral	(d) None of these
	10. Cathode rays are deflected by			
Ans	(a) Electric fields		(c) Event horizon	(d) All of these
	fields of black holes			
	1. The function of the exhaust pump in a discharge tube is to (a) decrease (b) increase (c) Harvest electrons (d) None of these			
Ans	(a) decrease	(b) increase	(c) Harvest electrons	(d) None of these
10	pressure	temperature		
	The positively char			(1) 0 1 1
	(a) Anode ((c) Synode	(d) Cathode
	The charge on an el			(N. 7. (N. 1. (N
Ans (a) -1 unit (b) -1.6 x 10-19 C (c) 1 C (d) Both (a) and (b)				
14. What is the ratio of mass of an electron to the mass of the Hydrogen atom Ans (a) 1: 1000 (b) 1: 184 (c) 1: 1840 (d) 1: 100				
				(d) 1: 100
		were applied to the	particles of cathode ray	
Ans	(a) 1823	(b) 1934	(c) 1901	(d) 1897