

LGS GROUP OF COLLEGES A PROJECT OF LAHORE GRAMMAR SCHOOL

Name: Eiman Amjad Subject: Chemistry	Class: 11-A Roll No. =
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OUBJECTIVE TYPE	
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Part - I	
Question no 2	
Short Answer	
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1- Moseley's law	
a challenge in the factor of the first of principles in	
It is the relationship between frequency of a particular	
line in x-roys and the atomic number of element	
III = a (7-b)a i avaranti avadity	
constant b -> screening constant:	
ii - Heisenberg's	
A CONTRACTOR OF THE PARTY OF TH	
According to this principle it is difficult to determine	
According to this principle it is difficult to determine the position as well as the momentum of the electron	
Simultaneously with accuracy	
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3 - Differentiate

Stark effect Zeeman effect

• When the spectral lines are split up into a number of thin lines in the presence of electric field then it is called stark effect. when emission spectrum
is studied in the presence
of magnetic field. The
Spectral lines are split
up into thinner lines
it is called zeeman

4- Aufbow Principle

According to this principle the novelectrons should be filled in every sub shell in order of increasing energy. The electrons are first placed in 15,25,2p and 3s lower energy orbital and then goes to high energy level e.g. s-orbital is first completely filled and then electrons enter the next orbital

Exampler

N(7) Is2, 252, 2p3

7- Differentiate

Continous Spectrumi-

different lines are diffused into each other at the

boundries and there are no dark spaces between these lines is called Continous spectrum Line Spectrumi-The spectrum which is obtained by heating a substance and in which different lines are separated by sharp boundries or alark spaces is called line or atomic spectrum. 11-Lower to higher orbit The equation for the radius of the H- atom, after Pushing the values of different parameters H- atom is as follows r = 0.529 (n2) A° [IA°=10-10] 8-1) ifferentiate Atomic Absorption Spectrum Atomic Emission Spectrum A spectrum formed by the A spectrum formed by the radiation radiation after being emitted by the heated substance absorbed by the absorbing is called atomic emission substance is called spectrum. atomic Absorpton Examples speetrum The spectrum Exampler The spectrum of existed hydrogen atomis light when passed through atomic emission spectrum unexcited hydrogen atomis the atomic absorption spectrum.



Long Answer

(b) Properties of cathodrays

Wicrooks, J. J Thomson and E. J Perrin.
Observed the followin properties of cathod roys

i- Negative naturei-

In 1998 1895 J. Perrin

observed that cathod rays are deflected in the magnetic field perpendicular to the line joining two poles.

2- Produce Fluoresence 1-

fluoresence on striking the walls of glass tube.
These rays also cause fluoresence in rare

metals

3-Produce X-raysi-

Cathod rays produce

penetrating radiations called v-rays when they strike a solid object with larger atomic

mass

4- Produce heat-

foccussed from concave cathode to metal (oil (Platinum foil) it begins to glow.

5-Consist of material particlesi-

observed that constituent particles of cathod rays have definite mass and velocity i.e. momentum