

MILAGRES COLLEGE Kallianpur – 576 114, Udupi District, Karnataka Web: www.milagrescollegekallianpur.edu.in

Email: milagrescollege@gmail.com

Office of the Principal

Phone: 0820-2580235 87626 90235

Slow Learners and Advance learners Assignments-Sample Copy

-	Marie Vanishous Marie IBS, marie Chemistry Assignment BISCS 101
	Chution inverging 253 marks what is a dubdition reaction ° give 33 A Substitution searchors is a dominant substi- during which an alors on more one func- anal group in a chimunic compound is suplaced by another atoms on functional group.
A. al	Nu + RHG - PR-Nu + 10
- 10-00	What is a leaving group fire 2g. A lining group is a moleculor programment that deporte, as a stables species with a pair of electrons in heterolytic bond dear Example.
11 3.	Alby halidie undurgo nucleophile & betitet.
	Beauer the dutresphilie altys halide forme one bond with the nucleophile which although at the alpha - earling.
Lund	contrat in the second states i
	- Chap is a quelisphile Substitution reaction - give example. A nucleophile is an elubron ruch specie the
1	lende la allack the dubtinate at a pa of low clubion durity A& these dubtility runction unvolving clubion such species le, nucleophilie, they one called nucleophile Bublitation Eg: R-Br to the corresponding alcohol Rajguru Super

3 Gains / the emergy purples diaguan for ser marrietanna , construction HOWER Townition Alak Ch.H. Champbert montger alletter a staly a before and and Hoveryy L. Nut. That Matty 1 H H- H HOT ist any in your to the 41 11 Rounder Paragareep 11 a gue the energy probile designame gan SNI renetino. TR. The ter, Rede Park P " P determining - 12 - 5- 5- 7 F-RS 752 15-No. AES AE, B. 1+ C-R + No. + L× R Contraction Reaction partition on the fe 8merg 12 + NJUT R -* AE RAU -NU +Lx-12.13 1. Readion Coordinates 11 2 Next 10 tobal one the abbut of de leaving group on the sente of SNR supertion ? The leaving group secondly has a negative shong Rajourd Super but stabling a negotu

Elementary Quantum Mechanics

2 marile questions

H.O. Department of Milagres O KALLIANPUR

1969

I what is photo electric offect ?

Ashen light of contain brequency falls on the surface of metal are ejected from metal. This phenomenon is known as photo electri I have an account of Heisenberg's uncertainity principle.

Reisonberg's uncertaining principle states that it is not possible to de exactly both position & momentum of small moving particles.

Da Op = h -(i)

Patting Sp = m. SU equ(i) becomes

Sz (m. ov) = 1/4x (11)

O DI OV = h/4Rm - (iii)

This implies that position & velocity of particle cann't be measured simu with containity.

3) five an account of dual nature of mattrial particles such as e The phenomena of black body radiation & photoelectric effect could be enougly if light is considered to fave particle character..., it was concerned that light has particle rature as well as wave nature i.e. it has d
4). What is black body ?

A body which completely absorbs oradiant energy falling on it 3. Explain compton effect.

The phenomenon of decrease in energy of increase in wave lug x-rays after scattering from surface of an object called compton of I. Explain photo electric effect on basis of quantum theory of radial Albert Einstein explained photoelectric effect by applying plande's que theory. According to this theory light consists of bundles of energy ca holons, the energy of each photon being equal to how, where D is frequen ight. when photon of light of frequency to strikes an electron in metal

is relation between wave lingth & momentum of particle? ling to planch's quantum theory its energy is given by, E= hv ->0 is Brequiries of wave is h is plande's constant photon is supposed to have granticle character, according to einstein og y is given by, Eame²-0 ~ 42 67 x (6) ha = mea 2= 0/2 when the boundary of the h. 4/2 = mc2 - 3 or A=h/mc for any material particle dike e, we may write = n/mv show on v = p is momentum of particle The above eqn called de bruglie equation. where 4 marks. 3 81 Breibly explain spectral distribution of black body radiation The energy emitted by black body at any konp down't consist of sing equincy. The distribution of energy amongst different coardingthis of black ectrum is given bdows 200012 1750 le 1500 te stort hassole in vetergeth (A) ami)-> Times . actanistics of curve are: has each temp, there is rearelingth (1 max) at which energy radiated maximum (Em).

Principal Principal Milagres College Kallanpur-576-714 Uuspi Dt., Karnataka