ANALYICAL SPECTROSCOPY

Item Text	Option Text 1	Option Text 2	Option Text 3	
What is disadvantage of radio active source used x ray analysis	high intensity radiation	equired large continously pace emitted radiation		
Balanced filter method is used in?	EXAFS	Wave Method	wave length dispersive devices	
Radiation in the x ray region can be emitted from radioactive sources by methods	electron capture	gamma emission	beta emission	
Gamma emission is caused by transition between	electron level	nuclear levels	vibrational level	
Alpha particle is a	argon nucleous	hydrogen nucleous	helium nucleous	
Beers law in x ray absorption shows by Equation	m=mer	m=mrt	m=mrj	
Energy dispersive device is works on	E=hv	$\mathbf{E} = \mathbf{cmv}$	E = Xuv	
Photo cathode is used in which of the following detector	scintillation	gas ionization	semiconductor	
K Caputre process means	electron captured by K shell	K shell captured M shell electron	K shell electron captured by nucleous	
Energy absorbed by the atom is equal to	kinetic energy of ejected electron	potential energykinetic energyof form ion withejected electrosvacant shelland potential		
Dispersive device in X ray absorption spectroscopy is used for	selection of monochromatic radiation	selection of selection of polychromatic radiation source		
In x ray absorption spectroscopy two filter that are used to	isolate analyte at markable edge	isolate wavelength at the absorptive isolate spectra of molecules		
In ESCA analyzer analyzes	kinetic energy	difusion energy	recoil energy	
Which of the following analyzer is used in ESCA	Retarding potential	Magnetic field	Spherical electrostatic	

In electostatic field analyzers	inner shpere is positive and outer sphere is negative	inner shpere is negative and outer sphere is	both inner shpere and outer sphere is positive
The KLL process deals with	Spin electron spectroscopy	PIXE	Auger Spectroscopy
The source is used in Auger electron spectroscopy is	electron gun	proton gun	neutron gun
Ups deal with	inner shell	inner orbitals	valence orbitals
Filler gas used in UPS source lamp	Ar	Kr	Не
UPS most oftenly used to study	Gaseous molecules	Solid molecules	Liquid molecules

Option Text 4
Very high energy radiations
Energy dispersive device
Electron capture, gamma emission, beta emission
Rotational level
helium atom
m=mmr
E = 2n
Fluorescence
K shell eject electron to conduction band
Energy lossed by electron
Selection of wavelength
Isolate walenght absorbed by sample
none of the above
All of the above

both inner shpere		
and outer sphere is		
negative		
PMR		
atom gun		
inner core		
All of the above		
Vaporized molecules		