CLA 1-Chemistry -18CYB101J

Part -A- 13 MCQs [13*1=13 Marks]
ys9941@srmist.edu.in Switch account
② Draft saved
Your email will be recorded when you submit this form
CO has 10 bonding electrons and 4 anti-bonding electrons and its bond order is
3
O 7
O 1
O 5/2
Clear selection
The filling up of Molecular orbital takes place according to
Huckel's rule
Hund's rule
Fajan's rule
Cahn Ingold Prelog rule
Clear selection

The antiaromatic molecule doesnot follow the
Huckel's rule
Hund's rule
Planarity
Conjucation
Clear selection
What is 1D box Potential energy inside the box
O 1
0
Infinity
undetermined
Clear selection
In the molecular orbital diagram of NO molecule, how many unpaired electrons would be present?
O 3
O 2
O 0
1
Clear selection

What is the CFSE value for d7 octahedral high spin and low spin complexes?	
① 1.8 and 0.8	
O and 2	
0.8 and 1.8	
O and 1	
Clear selection	
What is the de broglie wavelength of a 75g of a ball moving with a speed of 42m/s?	
21 x -34 m	
2.1 x -34 m	
21 x 34 m	
2.1 x 34 m	
Clear selection	
The crystal field splitting energy for octahedral and tetrahedral complexes is related as	
Δt ≈ 4/9 Δο	
Δο≈ 2 Δt	
\triangle Δ o \approx 4/9 Δ t	
Clear selection	

Identify the molecule possessing paramagnetic property from the list shown below.	
C Li2	
Осо	
○ N2	
O2	
	Clear selection
How many unpaired electrons are present in [CoF6]3- complex?	
4	
o zero	
O 2	
○ 3	
	Clear selection
What is the angular eigen function for hydrogen atom	
1/√2π	
1/√3π	
1/√4π	
1/√π	
	Clear selection

The calculated spin only magnetic moment of Cr 2+ ion is	
2.84	
5.92	
3.87	
4.9	
	Clear selection
Strong field ligands such as CN-:	
usually produce high spin complexes and small crystal field splitting	gs.
usually produce low spin complexes and small crystal field splitting	S.
 usually produce low spin complexes and high crystal field splittings 	
usually produce high spin complexes and high crystal field splitting	•
	S.
	Clear selection

Submit Clear form

This form was created inside of SRM Institute of Science and Technology. Report Abuse

Google Forms