

Date Planned ://	Daily Tutorial Sheet-3	Expected Duration : 90 Min		
Actual Date of Attempt ://	JEE Main (Archive)	Exact Duration :		

31.	Regular	lar use of which of the following fertilizers increases the acidity of soil? (200					(2007)		
	(A)	Ammonia sulph	nate		<b>(B)</b>	Potassium nitra	ate		
	(C)	Urea			<b>(D)</b>	Superphosphat	e of lime	!	
32.	Which	one of the follow	ing is the	correct stateme	ent?				(2008)
	(A)	Boric acid is a p	protonic	acid					
	(B)	Beryllium exhibits coordination number of six							
	(C) Chlorides of both beryllium and aliminium have bridged chloride structures in solid							res in solid pl	nase
	<b>(D)</b>	$\mathrm{B_2H_6}\cdot\mathrm{2NH_3}$ is known as 'inorganic benzene'							
33.	Which (A)							(2009)	
	(B)	$3XeF_4 + 6H_2O$	$3XeF_4 + 6H_2O \rightarrow 2Xe + XeO_3 + 12HF + 1.5O_2$						
	(C)	$2XeF_2 + 2H_2O \rightarrow 2Xe + 4HF + O_2$							
	<b>(D)</b>	$XeF_6 + RbF \rightarrow 1$	Rb[XeF <sub>7</sub> ]						
34.	1. In which of the following arrangements, the sequence is not strictly according t against it?						to the prope	erty written	
	(A)		$nO_2 < Ph$	$\mathrm{OO}_2$ : increasing	oxidisin	g power			(====,
	(B)	HF < HCl < HBr < HI : increasing acid strength							
	(C) NH <sub>3</sub> < PH <sub>3</sub> < AsH <sub>3</sub> < SbH <sub>3</sub> : increasing basic strength								
	<b>(D)</b>	B < O < N: inc	reasing f	ìrst ionization e	nthalpy				
35.	Which	of the following s	tatemen	t is wrong?					(2011)
	(A) The stability of hydrides increases from NH <sub>3</sub> to BiH <sub>3</sub> in group 15 of the periodic ta						periodic table	•	
	<b>(B)</b>	Nitrogen canno	t form da	τ-pπ bond					
	(C)	Single $N-N$ bond is weaker than the single $P-P$ bond							
	<b>(D)</b>	N <sub>2</sub> O <sub>4</sub> has two	resonand	e structure					
36.	Which of the following statements regarding sulphur is incorrect ? (2011)  (A) $S_2$ molecule is paramagnetic								
	(B)	The vapour at 200°C consists mostly of S <sub>8</sub> rings							
	(C)	At 600°C the gas mainly consists of $S_2$ molecules							
	(D)	_	-	_		+4 in its comp	ounds		
						1			(1)
37.		cannot form whic				D(011)=	<b>(7</b> )		(2011)
	(A)	$BF_6^{3-}$	<b>(B)</b>	$BH_4^-$	(C)	B(OH) <sub>4</sub>	(D)	$\mathrm{BO}_2^-$	
38.		lecule having sm		ond angle is :					(2012)
	(A)	NCl <sub>3</sub>	(B)	AsCl <sub>3</sub>	(C)	SbCl <sub>3</sub>	<b>(D)</b>	PCl <sub>3</sub>	



39.	Which of the following is the wrong statement?							(2013)	
	(A)	Ozone is par	amagneti	c gas	<b>(B)</b>	ONCl and O	ONO are r	not isoelectro	nic
	(C)	$O_3$ molecul	e is bent		<b>(D)</b>	Ozone is vio	olet-black i	n solid state	
<b>40</b> .	Amon	Among the following oxoacids, the correct decreasing order of acid strength is:							(2014)
	(A)	HClO <sub>2</sub> > HC	$lO_4 > HC$	lO <sub>3</sub> > HOCl	<b>(B)</b>	HOCl > HC	$IO_2 > HCIC$	3 > HClO <sub>4</sub>	
	(C)	HClO <sub>4</sub> > HC	OCl > HClO	$O_2 > HClO_3$	<b>(D)</b>	HClO <sub>4</sub> > HC	ClO <sub>3</sub> > HCl	O <sub>2</sub> > HOCl	
41.	Whiel	Which one of the following properties is not shown by NO?							(2014)
	(A)	· · · · · · · · · · · · · · · · · · ·							
	<b>(B)</b>	It is neutral	oxide						
	(C)	It combines	with oxyg	en to form nitr	ogen dioxi	de			
	<b>(D)</b>	It's bond ord	ler is 2.5						
<b>42</b> .	The c	The correct statement for the molecule, CsI <sub>3</sub> is:							(2014)
	(A)	It is a covalent molecule							
	<b>(B)</b>	It contains $Cs^+$ and $I_3^-$ ions							
	(C)	It contains $Cs^{3+}$ and $I^-$ ions							
	<b>(D)</b>	It contains	Cs <sup>+</sup> , I <sup>-</sup> an	d lattice I <sub>2</sub> mo	lecule				
<b>43</b> .	Whiel	Which among the following is the most reactive?						(2015)	
	(A)	$I_2$	<b>(B)</b>	ICl	(C)	$\text{Cl}_2$	<b>(D)</b>	$Br_2$	
44.	Asser	r <b>tion :</b> Nitroger	n and oxy	gen are the ma	in compoi	nents in the a	tmosphere	but these de	o not react to
		oxides of nitrog	•	3	•		•		
	Reas	<b>Reason :</b> The reaction between nitrogen and oxygen requires high temperature.						(2015)	
	(A)	The assertion is incorrect, but reason is correct							
	<b>(B)</b>	Both the assertion and reason are incorrect							
	(C)	Both assertion and reason are correct and the reason is the correct explanation for the assertion							he assertion.
	<b>(D)</b>	Both assertion and reason are correct, but the reason is not the correct explanation for						ation for the	
		assertion.							
<b>4</b> 5.	The le	The least number of oxyacids are formed by : (2015)							<b>(2015)</b>
	(A)	nitrogen	(B)	sulphur	(C)	fluorine	(D)	chlorine	