Engineering Chemistry theory, MID-I Q.B

Course code	Tags	Question Description
19BT1BS04	Easy	Which is the purest form of surface water? Ans: Rain Water
		Hardness of water is due to Ans: Due to presence of minerals or presence of
19BT1BS04	Medium	salts
		Permanent hardness is due to <i>presence of sulphates chlorides, nitrates of</i>
19BT1BS04	Medium	calcium and magnisiulm
19BT1BS04	Easy	The most commonly used unit to express hardness is Mg\L as CaCo3
		Scale in boilers are formed due to
		1.Deposotion of CaSo4
		2.Decomposition of Ca(HCo3)2
		3.Hydrolysis of Magnesium Salts
19BT1BS04	Easy	4.Presence of Silica
19BT1BS04	Easy	Temporary hardness of water can be removed by Boiling of water
		Excess fluoride in drinking water causes Decolaration of teeth and bone
19BT1BS04	Easy	problems 1.flourosis 2.skeletal flourosis
19BT1BS04	Medium	The maximum permissible limit of fluoride in drinking water is 1.5mg/l
		Zeolite process uses
		1.Catalysis
		2.Ion exchange
19BT1BS04	Easy	3. Gas Seperation
		Which process is used for the desalination of water
		There are nearly 10 methods
		Solar distilation
		Vaccum distilation
		Multistage flash distilatino
		Multiple effect distilation
		Vapour compression distillation
		Reverse Osmosis
		Frezze Law
		Electrodylasis Membrane
		Membrane distillation
19BT1BS04	Easy	Wava Powered Distilation
19BT1BS04	Medium	Residual hardness in ion exchange process is 0 to 2 ppm
		Which salts are responsible for permanent hardness
		Due to presence of Chlorides, Nitrates and Sulphates of calcium , magnesium
19BT1BS04	Easy	Eg:CaCl2,MgSo4,CaSo4
19BT1BS04	Easy	Which is not used for disinfection of water

19BT1BS04	Easy	Dissolved oxygen in water is determined by Winkler Method
		Hardness in the water is expressed in terms of equivalents
19BT1BS04	Easy	Ans: CaCo3 equivalent
19BT1BS04	Easy	Disinfection of water removes <i>Pathogenic MicroOrganisms</i>
19BT1BS04	Easy	Acceptable pH range for drinking water is 6.5 to 8.5
19BT1BS04	Easy	Nalgonda technique is used for the removal of <i>Ecess Flouride From Water</i>
	,	Caustic embrittlement of boilers is caused due to Accumalation of Caustic
19BT1BS04	Medium	Soda
100710004	NA o diviso	Dissolved oxygen in water can be removed by addition of
19BT1BS04	Medium	Ans:caluculated quantity of Na2So3 or Na2S or N2H4
19BT1BS04	Medium	Priming causes
19BT1BS04	Easy	Which of the following is used for regeneration of zeolite
19BT1BS04	Easy	Ion exchange process removes <i>Disolved ions from solution</i>
19BT1BS04	Easy	EDTA stands for Ethylenediamine Tetra-Acetic Acid
		Exausted cation exchange resine is regenerated by
19BT1BS04	Easy	Ans:Sodium Chloride
10DT1DC04	Facy	What are the characteristic changes can be observed in water due to the
19BT1BS04	Easy	presence of impurities
19BT1BS04	Medium	Pick up the correct relationship among the following
19BT1BS04	Medium	Drawing off a portion of the concentrated water is
19BT1BS04	Medium	Foaming in water is due to
	_	Potable water means
19BT1BS04	Easy	Water that is safe to drink The hand order for N. malecule is
19BT1BS04	Easy	The bond-order for N₂ molecule is, Ans: 2.5
40DT4DC04	F	The magnetic behavior of O ₂ molecule is,
19BT1BS04	Easy	Ans:Paramagnetic
	_	Which of the following order is correct with respect to bond order of O ₂ , N ₂
19BT1BS04	Easy	and F ₂ molecules?
		Ans:2,3,1
19BT1BS04	Easy	The magnetic behavior of Carbon monoxide (CO) molecule is, diamagnetic
		Bond-order of a molecule is calculated using the following formula,
		Ans:Bondorder = (½)* [Nb – Na] Where Nb is the number of bonding electrons
19BT1BS04	Easy	Na is the number of antibonding electrons
19BT1BS04	Medium	The bond-order of NO molecule is, Ans:3
19BT1BS04	Medium	How bond-order is related to dissociation energy? <i>Ans:Directly proportional</i>
19BT1BS04	Easy	Arrange molecular species N ₂ , NO and O ₂ in the increasing order of stability,

19BT1BS04 Easy Ans:Principle quantum number determines the energy of an orbital in an atom? Ans:Principle quantum number			Ans: N2, O2,
Easy	400740004	_	
According to Heisenberg uncertainty principle, Ans: Heisenberg uncertainty principle states that it is impossible to determine the exact position and the exact momentum of the particle simultaneously. According to Heisenberg uncertainty principle, According to Heisenberg uncertainty principle states that it is impossible to determine the exact position and the exact momentum of the particle. According to Heisenberg uncertainty principle states that it is impossible to determine the exact position and the exact momentum of the particle. According to Heisenberg uncertainty principle, According to Heisenberg uncertainty principle. According to Heisenberg uncertainty principle. According to Heisenberg uncertainty principle. According to Quantum mechanics, percentainty principle. According to Quantum mechanics, percentainty principle. According to Quantum mechanics, percentainty, positioned in the particle	19BT1BS04	Easy	Ans:Principle quantum number
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	19BT1BS04	Easy	Which one of the following is HOMO of 1,3-butadiene?
<u> </u>	19BT1BS04	Medium	Which of the following represents LUMO of Benzene?
Number of nodal planes possible in HOMO representation of Benzene is,	100=:55		
19BT1BS04 Medium Ans: 3 Nodal Planes How many number of molecular orbitals are present in Benzone?	19BT1BS04	Medium	
How many number of molecular orbitals are present in Benzene? 19BT1BS04 Easy Ans:Six Molecular Orbitals	19BT1BS04	Fasy	·

19BT1BS04	Easy	Total no. of electrons present in the molecular orbitals of CO molecule is,
19BT1BS04	Easy	Diamagnetic behavior of N ₂ molecule <i>is due to,all paired up elctrons</i>