Unit Test 1 (2020-21 Sem-II)

Total points 22/27 ?



Part- 2

The composition of chloride ion electrode is *	1/1
Ag2S and AgCI	✓
AgS and AgCl2	
AgS and AgCI	
AgCl and NaCl	

✓ Determination of urea by enzyme based electrode the potential is developed due toion *	1/1
OH-	
F- ion	
Cl- ion	
● NH4+	✓

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In glass membrane electrode, the glass con 71% SiO2 is highly sensitive to which of the	
Sodium	
Hydrogen	×
Nitrogen	
Silicon	
Correct answer	
Sodium	
✓ conductance of 1 Cm 3 of a solution is called	d * 1/
specific resistance	
specefic conductance	✓
specific potential	
special conductance	
Division *	

✓ Concentration of KCI solution is used determine potential of *	1/1
calomel	✓
SHE	
Glass electrode	
one of these	
The glass membrane in glass electrode undergoes ion exchange re in which *	eaction 1/1
Na+ ions of glass are exchanged for H+ Ions	✓
H +ions of glass are exchanged for Na+ ions	
glass is exchanged for Na+ ions	
Hg2 2+ ions are exchanged	
Other:	

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×	The properties of gas sensing membrane *	0/1
0	Non porous	
0	Hydrophyllic	
0	Both a & b	
•	Porous and hydrophobic	×
Corre	ect answer	
•	Both a & b	
/	with rise in temperature the conductance of a solution of an electrolyte generally *	1/1
0	decreases	
•	increases	✓
0	remains constant	
0	none of these	

✓ the distance between two electron of a cell is 3 cm and are of each electrode is 6 cm² the cell constant is*	1/1
2.0	
O 1.0	
.5	✓
O 18	
Other:	
✓ At the bottom of the calomel electrode, liquid, is placed. *	1/1
O NaCl	
Hg	✓
О кон	
CaCl2	

★ Internal reference solution used in fluoride ion electrode is *	0/1
NaF + NaCl	
KF + KCI	
Both a and b	×
NaCl + KCl	
Correct answer	
NaF + NaCl	
✓ NH4OH + NH4Cl is an example of *	1/1
dilute buffer	
acidic buffer	
oncentrated buffer	
basic buffer	✓
Name *	
Hrushikesh Kachgunde	

!

✓ Calomel shows E = 0.2422 V for *	1/1
 0.1 M KCI 1 M KCI saturated KCI none of these 	✓
✓ The solution which resists change in pH though small amount of acid or base is added is called*	1/1
Indicator	
b buffer	✓
titrant	
on none of these	
✓ Conductivity of a solution is directly proportional to *	1/1
	·
O Distance between two electrode	
molecular weight of electrode	
Number of ions per cc of solution.	✓
cross sectional area of electrode	

1/1
✓
0/1
×
1/1
✓

✓ Calomel is made by using *	1/1
Hg with mercurous chloride	✓
Hg with mercuric chloride	
Zinc with mercurous chloride	
Ca with mercurous chloride	
✓ Potential of glass electrode is given by *	1/1
EG= EG0 - 0.00591 Ph	
● EG= EG0 + 0.00591 Ph	✓
EG= 0.00591 pH -E0G	
all of these	
✓ In solid state membrane electrode the membrane is made of*	1/1
Organic compound	
Covalent compound	
Ionic compound	✓
Water soluble compound	

✓ The units of equivalent conductance are*	1/1
 ohm cm equivalent ohm-1 cm-1 equivalent-1 ohm-1 cm2 equivalent-1 ohm-1 cm-2 equivalent-2 	✓
✓ In S.AS.B. titration , at neutralisation point , conductance attains *	1/1
maximum valueminimum valuezeroseven	✓
X In strong acid -strong base titration, initially conductance decreases because *	0/1
 Na+ ions are less mobile Na+ ions are highly mobile H20 formed decreases the conductance none of these Correct answer	×
Na+ ions are less mobile	

✓ The sensor used for H+ ion concentration is *	1/1
Gas sensor	
glass membrane	✓
protein membrane	
one of the above	
, electrode is represented by Hg/Hg2Cl2(s)/ Cl- *	1/1
quinhydrone	
hydrogen	
glass	
calomel	✓
✓ Generally, method is used to measure conductance. *	1/1
Bragg	
O Beer Lambert	
Wheatstone Bridge	✓
All of above	

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