0	STD: XII ONE MARK TEST - 8 Lesson: 9 & 13
	Marks: 30 / Time: 45 Min
	Choose the correct answer
	1. For the cell reaction $2Fe^{3+}$ (ag) $+$ $2I^{-}$ (ag) $\rightarrow 2Fe^{2+}$ (ag) $+$ $1/2$ (ag)
	$E_{cell}^* = 0.24 \text{ V}$ at 200V. The standard Gibbs energy (A. G') of the cell reactions is:
	a) -46.32 KJ mol ⁻¹ b) -23.16 KJ mol ⁻¹ c) 46.32 KJ mol ⁻¹ d) 23.16 KJ mol ⁻¹
	2. Lithium ion battery is a
	a) primary battery b) secondary battery
	c) non – rechargeable battery d) none of the above
	3. Assertion: pure iron when heated in dry air is converted with a layer of rust.
	Reason: Rust has the composition of the Composition
	a) if both assertion and reason are true and reason is the correct explanation of assertion
	b) if both assertion and reason are true but reason is not the correct explanation of assertion
	c) assertion is true but reason is false
	d) both assertion and reason are false.
	4. As concentration of the electrolyte decreases the molar conductance and equivalent conductance of the
	Solution
	a) decreases b) increases c) remains the same d) becomes zero
	5. The equivalent conductance of M/36 solution of a weak monobasic acid is 6 mho cm ² equivalent and at
	infinite dilution is 400 mho cm ² equivalent ⁻¹ . The dissociation constant of this acid is
	a) 1.25×10^{-6} b) 6.25×10^{-6} c) 1.25×10^{-4} d) 6.25×10^{-5}
	6. The general representation of a fuel cell is
	a) Fuel / Electrode / Electrolyte / Electrode / Oxidant
	b) Oxidant /Electrode / Electrolyte / Fuel
	c) Fuel / Electrode / Electrolyte / Electrode / Reductant
	d) Oxidant /Electrode / Electrolyte /Reductant
	7. Conductivity of a saturated solution of a sparingly soluble salt AB (1:1 electrolyte) at 298K is
	1.85 x 10 ⁻⁵ S m ⁻¹ . Solubility product of the salt AB at 298K (Λ^{0}_{m}) AB = 14 x 10 ⁻³ S m ² mol ⁻¹ .
	a) 5.7×10^{-12} b) 1.32×10^{-12} c) 7.5×10^{-12} d) 1.74×10^{-12}
	8. When electric current is passed through an electrolytic solution, charge is carried by
	a) electrons b) ions c) atoms d) molecules
	9. While charging lead storage battery
	a) PbSO ₄ on cathode is reduced to Pb b) PbSO ₄ on anode is oxidised to PbO ₂
	c) PbSO ₄ on anode is reduced to Pb d) PbSO ₄ on cathode is oxidised to Pb
	10. Which of the following statement is correct with respect to electrolytic conductance?
	a) Conductivity increases with the decreases in Viscosity
	b) Conductivity increases with increase in temperature
	c) Molar conductance of a solution decreases with increase in dilution
	d) Conductance decrease with increase in temperature.
	11. A current strength of 3.86 A was passed through molten Calcium oxide for 41minutes and 40 seconds. The
	mass of Calcium in grains deposited at the cathode is (atomic mass of Ca is $40g / mol$ and $1F = 96500C$)
	a) 7 D) 2 C) X
	12. The device which converts electrical energy into chemical energy is known as
	a) Galvanic cell b) Voltaic cell c) electrolytic cell d) all the above
	13. The moral conductivity of a 0.5 mol dm ⁻³ solution of AgNO ₂ with electrolytic conductivity of
	200 5 2 4 290 K IS
	a) 2.88 S cm ² mol ⁻¹ b) 11.52 S cm ² mol ⁻¹ c) 0.086 S cm ² mol ⁻¹ d) 28.8 S cm ² mol ⁻¹
	11. The button cell used ill walches finction as follows
	$Zn(s) + Ag_2 O(s) + H_2O(l) \rightleftharpoons 2 Ag(s) + Zn^{2+}(aq) + 2OH^{-}(aq)$ the half cell potentials are
	$\frac{1}{2}$ $\frac{1}$
	a) 0.84V b) 1.34V c) 1.10V d) 0.42V
	13. During the electrolysis of fused NaCl, which reaction occurs at anoda
	a) chloride ions are oxidized b) chloride ions are reduced
	d) sodium ions are oxidised
	16. Which one of the following will not undergo Hofmann bromamide reaction

	d) C6H5CONH2
a) CH ₃ CONHCH ₃ b) CH ₃ CH ₂ CON	1113
in my 1 . C 11 . It amount on an old	chyde with a primary amine d) ketone d) ketone
a) carboxylic acid b) aromatic acid	c) schiff 's base d) ketone sence of Na/Ether to form 3-imino- 2-methylpentanenitrile. This
18. Two molecules of propannitrile in the pre	sence of Na/Ether to form 3-IIIIII0-2
Todovious to this will be	
a) Baltz – schiemann reaction	b) Thorpe nitrile condensation
c) Gomberg reaction	d) Schotten – Baumann reaction
19. Which one of the following nitro compou	nds does not react with nitrous acto
a) CH ₃ -CH ₂ -CH ₂ - NO ₂	$^{-100}$ " b) (CH ₃) ₂ CH – CH ₂ NO ₂
c) (CH ₃) ₃ C NO ₂	d) $CH_3 - C - CH - NO_2$
	d) $CH_3 - C - CH - NO_2$
20. The method by which aniline cannot be p	repared is
a) degradation of benzamide with Br ₂ /	NaOH
b) potassium salt of phthalimide treated	with chlorobenzene followed by hydrolysis with aqueous
NaOH solution	
e) reduction of Nitrobenzene with LiAl	114
d) reduction of nitrobenzene by Sn / Ho	JI.
21. The correct order of acidic nature of nitro	alkanes is
a) nitro propane> nitroethane > nitro m	
b) nitro propane < nitroethane < nitrom	
c) nitro methane < nitro ethane < nitro	
d) nitro ethane> nitro methane> nitro p	
22. Among the following, the reaction that pr	oceeds through an electrophilic substitution, is:
a) $N_2C_1 \xrightarrow{C_{12}C_{12}} C_{12}N_2$	AICI, ACHO
a) N ₂ Cl Cl+N ₂	6)
_ CI CI	로마 (1985 <u>~</u>)중요한
	ch_OH+HOf heat CH_C + H ₂ O
c) $-c_{\epsilon} \frac{UV \text{ light}}{}$	
23. Among the three types of amines, second	
a) +I effect b) steric effect	
24. Secondary nitro alkanes react with nitrou	
a) red solution b) blue solution	c) green solution d) yellow solution
25. Nitro ethane and ethyl nitrite are	
a) chain isomers b) position ison	
	when reacted with nitrous acid followed by treatment with alkali
produces blue colour?	
a) 2-methyl-2-nitropropane	b) 2-methyl-1-nitropropane
c) 2-nitropropane	d) nitrobenzene
	0 ₃ / H ₂ SO ₄ at 80-100 ⁰ C forms which one of the following
products?	
a) 1,4 – dinitrobenzene	b) 2,4,6 – trinitrobenzene
c) 1,2 – dinitrobenzene	d) 1,3 – dinitrobenzene
28. The test used to identify a secondary am	ine is
a) iodo form test	b) silver mirror test
c) Libermann's nitroso test	d) carbylamine test
29. The order of basic strength for methyl su	ibstituted amines in aqueous solution is
a) $N(CH_3)_3 > N(CH_3)_2H > N(CH_3)H_2$	$> NH_3$ b) $N(CH_3)H_2 > N(CH_3)_2H > N(CH_3)_3 > NH_3$
c) $NH_3 > N(CH_3)H_2 > N(CH_3)_2 H > N$	$(CH_3)_3$ d) $N(CH_3)_2$ H > $N(CH_3)_{H_2}$ > $N(CH_3)_3$ > NH_3
30. $C_6H_5N_2$ $Cl + H_3PO_2 + H_2O \rightarrow C_6H_6$	+ H ₃ PO ₃ + HCl + N ₂ This reaction proceeds through
a) SN ¹ mechanism	b) SN ² mechanism
c) free radical mechanism	d) elimination reaction

CHEMISTRY

Lesson: 9 & 13

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	2 87	answer.	18.	a.	chicofide Pons ou outlized
1.	a.	-46.35 K1 mol-1	16.	a.	CH3 CONHCH3
			17.	c.	schiff's bose
2.	Ь.	secondary battery	18.	ь.	thoupe hangle
-3° -11	12		- 9	5-	Condensation
3.	d.	both a ssention and steason over faire	IQ.	C.	(CH3) 3 CN00
			20	6.	potassium sait of
4.	6.	Incheases			Phthalimade torected
		THE SHAPE OF THE SHAPE	Le n		w9th chioxobenzene
5.	6.	6.25 × 10-6	7 6		followed by hydrolys9s
		C+O G+			w9th ord neods.
6-	a.	Fuel / Electorode / Electordyk	ગ	p.	Ustone by obane > Ustace was
		Electorade /osc?daint	15		>n9+310 methane
			25		Ex and Albert
7.	d.	1.74 x 10-12	1	0.	
y 6			23	d.	an the above
8.	p.	ions	2 q.	Ь.	blue solution
9.	c-	pbsoy on anode 9s	DB.	d.	tautomens
		oreduced to pb	2b-	c.	3 - Wetgebrobane
10.	C.	molar conductance of	シオ・	d.	1, 3 - denotorobenzene
	C	a solution decreases	28-	c.	176 Symann's Uptonoso
		with increase Indilution			test
		T Contact Ion	29	·d.	NCCH3)2H > NCCH3)H2>
11.	Ь	2			N CCH3)3 > NH3
12.	c.	electuoly fic cell	30	- C-	
18	. 1	11 50 80 = 2		100	mechanism
100	D.	Kindly send Me Your Study Materials To Us En	mail	ID: p	pa <mark>dasalai.net@gmail.com</mark>